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THE ARTS IN THE MIDDLE AGES

AND THE RENAISSANCE.



THE ANNUNCIATION.

Fac-simile of a Miniature from the "Hours" of Anne de Bretagne, formerly belonging to Catherine de Medicis.
(Library of M. A. Firmin Didot.)

THE ARTS

THE MIDDLE AGES

THE RENAISSANCE



THE ARTS

IN

THE MIDDLE AGES

AND

THE RENAISSANCE

By PAUL LACROIX

(Bibliophile Jacob),

CURATOR OF THE IMPERIAL LIBRARY OF THE ARSENAL, PARIS.

ENGLISH EDITION, REVISED AND RE-ARRANGED

By W. ARMSTRONG, B.A.

And Illustrated with

TWELVE CHROMOLITHOGRAPHIC PRINTS BY F. KELLERHOVEN

AND UPWARDS OF

FOUR HUNDRED ENGRAVINGS ON WOOD.

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THE INSTITUTE OF MEDIAEVAL STUDIES
10 ELMSLEY PLACE
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SEP 25 1931

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EDITOR'S NOTE.

THIS Edition of Bibliophile Jacob's "History of the Arts in the Middle Ages and the Renaissance," is founded on the last English Edition, but contains an additional chapter on Music. My work upon it has been confined to revising the text, to condensing the matter here and there, where it could be done without loss, and to supplying the few notes demanded, even in a popular work, by the progress made in the archæology of the arts during the last twenty-five years.

W. A.

PREFACE TO THE SECOND FRENCH EDITION.

MORE than twenty years ago we published, with the aid of our friend Ferdinand Séré, whose loss we regret, and with the co-operation of other learned men and eminent writers and artists, an important work entitled "THE MIDDLE AGES AND THE RENAISSANCE." That work, which consists of five large quarto volumes, treated in detail the manners and customs, the sciences, the literature, and the arts of those two great epochs, a subject as vast as it is interesting and instructive. Thanks to the learning it displayed, and to its careful execution, it had the rare good fortune to attract the immediate attention of the public, and even now it maintains the interest which marked its first appearance. It has taken its place in the library of the amateur, not only in France but also among foreigners; it has, in fact, become famous.

This exceptional result, especially as regards a publication of such extent, induces us to believe that our work, thus known and appreciated by the learned, may and ought henceforth to have still greater success by addressing itself to a yet larger number of readers.

With this conviction we now present to the public the principal and perhaps the most interesting portion of that important work, in a form more simple than it has yet obtained, which will bring it within the reach

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of many to whom the larger volumes are unfitted. In "The Arts in the Middle Ages and the Renaissance" we have reunited scattered materials, we have ranged them in their places, and we have taken care to preserve the brilliant colouring in which our work was first clothed.

All the Arts are interesting in themselves. Their productions awaken attention and excite curiosity. But here it is not one Art only that is treated. We pass in review all the Arts, from the fourth century to the second half of the sixteenth—Architecture, which raised churches and abbeys, palaces and public memorials, strong fortresses and the ramparts of cities; Sculpture, which adorned and perfected other Arts by its works in stone, marble, bronze, wood, and ivory; Painting, which commenced with mosaic and enamels, and contributed to the decoration of buildings and to the embellishing and illuminating of manuscripts before it arrived at its highest point of perfection with the Art of Giotto and Raphael, of Memling and Albert Dürer; Engraving on wood and metal, which is associated with the work of the medallist and the goldsmith; and, lastly, after touching lightly upon Playing-cards and Niello-work, we suddenly reach that sublime invention which was destined to change the face of the world—namely, Printing. Such are, in brief, some of the principal features of our picture. One can imagine what an infinity, what variety and richness of detail, it should contain.

Our subject presents, at the same time, another kind of interest more elevated and not less alluring. In our book each Art appears in its different phases and in its diversified progress. It is a history, not only of the Arts, but of the epochs in which they were developed; for the Arts, regarded in their generality, are the truest expression of society. They speak to us of tastes, of ideas, of character: they exhibit man in their works. Of all that an age can leave to the future, that which represents it most vividly is Art. And upon this idea our book is written, and its interest is not confined to a single era, but embraces two very distinct from each other. In the first, that of the Middle Ages, which followed the invasion of the Northmen, society was in a great measure formed of new and barbarous elements, which Christianity laboured to break up and re-fashion. In the second epoch, on the contrary, society was organized and firmly established; it enjoyed peace, and reaped its fruits. The Arts followed the same phases. At first rude and informal, they rose slowly

and by degrees, like society, out of chaos. At length they flourished in perfect freedom, and progressed with all the energy of which the human mind is capable.

During the Middle Ages, Art generally followed the inspirations of that Christian spirit which presided at the formation of this new world. Its first work was to reproduce in an admirable manner the religious ideal. Only towards the end of the period in question, did it search for beauty of form. The Renaissance—that is, the intellectual revolution which, in the fifteenth and sixteenth centuries, restored among modern nations the Literature and the Arts of antiquity—turned Art into more sensuous channels. Then the Arts changed their direction, and especially the principal Arts, those by which the genius of man expresses most forcibly his ideas and his feelings. Thus, in the Middle Ages, a new style of architecture sprang up and rapidly attained the highest degree of perfection, the pointed or Gothic style, of which our cathedrals are the chief examples: at the Renaissance, this was replaced by architecture derived from that of the Greeks and Romans, and that, too, produced admirable works, which, however, were less in harmony with the peculiar dignity and splendour of Christian worship. In the Middle Ages, Painting turned mainly to religious expression; at the Renaissance, to the beauty of the human form. Sculpture followed similar phases, and drew the art of Engraving with it.

For the success of an undertaking on so wide and comprehensive a plan, it became necessary to unite with us in our task men most distinguished by their learning and talents: we are permitted to cite the names of MM. Ernest Breton, Aime Champollion, Champollion-Figeac, Pierre Dubois, Duchesne, Ferdinand Denis, Jacquemart, Arch. Juvinal, Jules Labarte, Lassus, Louandre, Prosper Merimée, Alfred Michiels, Gabriel Peignot, Riocreux, De Saulcy, Jean Designeur, le Marquis de Varennes. After such a list we record our own name only to acknowledge that we have gone over and recast these various works, and presented them in a form which gives them more unity.

Our numerous illustrations will engage the eye, while the text speaks to the intelligence. The designs in chromo-lithography are executed by M. Kellerhoven, who is so well known from his "Chefs-d'œuvre of the Great Masters," "Lives of the Saints," and "Legend of St. Ursula."

No one is ignorant of the attention given in these days to archæology. Information about objects of antiquity is necessary to every instructed person. Such studies should be carried far enough to enable us to appreciate, or at least to recognise, such examples of olden time in Architecture, Painting, &c., as may present themselves to our notice. Archæology has become indispensable to a good education for the young of each sex. For them the perusal of this book will be an attractive introduction to that knowledge which for too long a time was the exclusive domain of the learned.

PAUL LACROIX
(Bibliophile Jacob).

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THE ARTS IN THE MIDDLE AGES,

AND IN

THE RENAISSANCE.

FURNITURE,

DOMESTIC AND ECCLESIASTICAL.

Simplicity of Furniture among the Gauls and Franks.—Introduction of costly Taste in Articles of Furniture of the Seventh Century.—Arm-chair of Dagobert.—Round Table of King Arthur.—Influence of the Crusades.—Regal Banquet in the Time of Charles V.—Benches.—Sideboards.—Dinner Services.—Goblets.—Brassware.—Casks.—Lighting.—Beds.—Carved Wood Furniture.—Locksmiths' Work.—Glass and Mirrors.—Room of a Feudal Seigneur.—Costliness of Furniture used for Ecclesiastical Purposes.—Altars.—Censers.—Shrines and Reliquaries.—Gratings and Iron-mountings.



E shall be readily believed when we assert that the furniture used by our remote ancestors, the Gauls, was of the most rude simplicity. A people essentially addicted to war and hunting—at the best, agriculturists—having for their temples the forests, for their dwellings huts formed out of turf and thatched with straw and branches, would naturally be indifferent to the form and description of their furniture.

Then succeeded the Roman Conquest. Originally, and long subsequent to the formation of their warlike republic, the Romans had also lived in contempt of display, and even in ignorance of the conveniences of life. But when they had subjugated Gaul, and had carried their victorious arms to the confines of the world, they by degrees appropriated whatever the manners and habits of the conquered nations disclosed to them of refined luxury, material progress, and ingenious devices for comfort. Thus the Romans brought with them into Gaul what they elsewhere had acquired. Again, when, in their turn, the semi-barbarous

hordes of Germany and of the Northern steppes invaded the Roman Empire, these new conquerors did not fail to accommodate themselves instinctively to the social condition of the vanquished.

This, briefly stated, is an explanation—we admit, rather concise—of the transition connecting the characteristics of the society of olden days with those of modern society.

Society in the Middle Ages—that social epoch which may be compared to the state of a decrepid and worn-out old man, who, after a long, dull

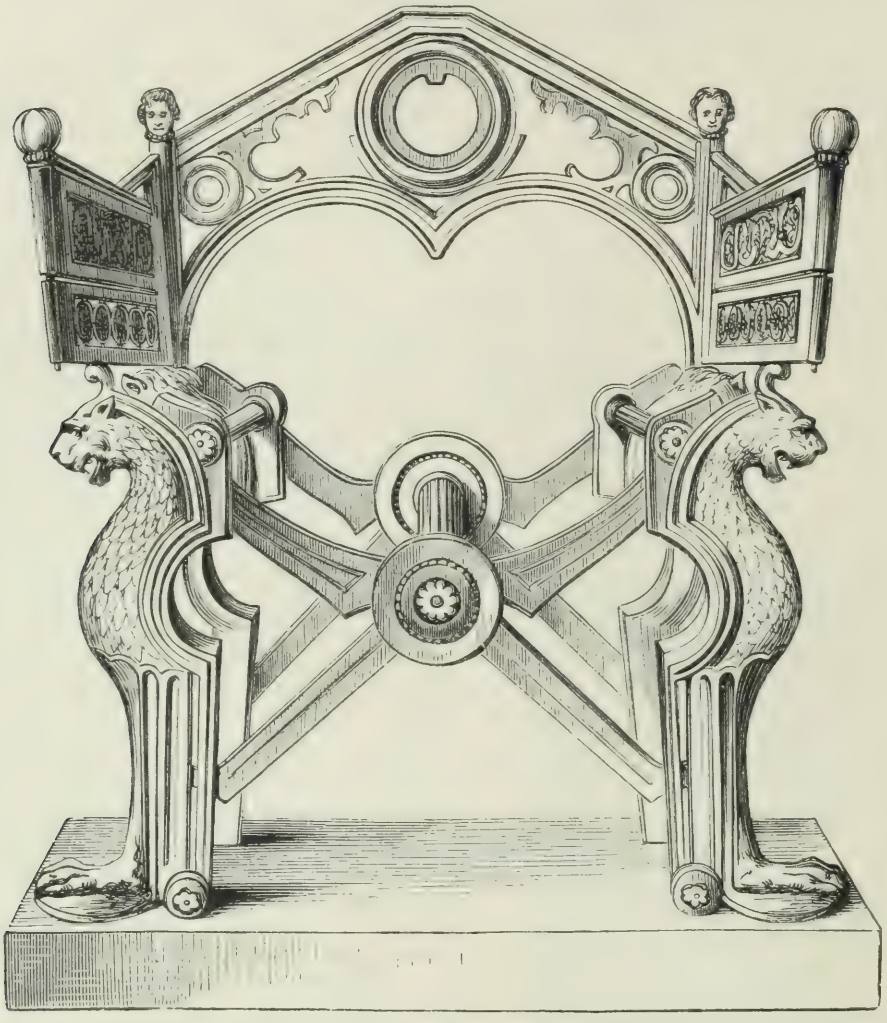


Fig. 1.—The Curule Chair called the "Fauteuil de Dagobert," in gilt bronze, now in the Musée de Souverains.*

torpor awakes to new life like an active and vigorous child—society in the Middle Ages inherited much from preceding times. It transformed, perhaps; and it perfected, rather than invented; but it displayed in its works a genius so peculiar that we generally recognise in it a real creation.

If we could visit any royal or princely abode of the Merovingian period, we should find the display of wealth consisting much less in the elegance or in the originality of the forms devised for articles of furniture, than in the

* There is an electrotype reproduction at South Kensington.

profusion of precious materials employed in their fabrication and embellishment. The time had gone by when the earliest tribes of Gauls and of Northmen, who came to occupy the West, had for their seats and beds only trusses of straw, rush mats, and bundles of branches, and for their tables slabs of stone or piles of turf. From the fifth century of the Christian era, we already find the Franks and the Goths resting their muscular forms on the long soft seats which the Romans had adopted from the East, and which have become our sofas or our couches, their names only being changed. In front of them were arranged low horseshoe tables, at which the centre seat was reserved for the most illustrious of the guests. Couches at the table



Fig. 2.—Chair of the Ninth or Tenth Century, taken from a Miniature of that period. (MS. de la Bibl. Nat. de Paris.)

were soon abandoned by the Gauls; benches and stools were adopted by those most active and vigorous men; meals were no longer eaten reclining, but sitting; while the thrones of kings and the chairs of state for nobles were of the richest sumptuousness. Thus, for instance, we find St. Eloi, the celebrated worker in metals, manufacturing and embellishing two state-chairs of gold for Clotaire and a throne of gold for Dagobert. The chair ascribed to St. Eloi, and known as the Fauteuil de Dagobert (Fig. 1), is an antique curule chair. Originally it was a folding one; the Abbé Suger, in the twelfth century, added to it the back and arms. Artistic display was equally lavished on the manufacture of tables. Historians tell us that St. Remy, a

contemporary of Clovis, had a silver table decorated all over with sacred subjects. The poet Fortunat, Bishop of Poitiers, describes a table of the same metal, which had a border representing a vine with bunches of grapes.

Coming to the reign of Charlemagne, we find, in a passage in the writings of Eginhard, his minister and historian, that, in addition to a golden table which this great monarch possessed, he had three others of chased silver; one



Fig. 3.—Round Table of King Arthur of Brittany, from a Miniature of the Fourteenth Century. (MS. de la Bibl Nat. de Paris.)

decorated with designs representing the city of Rome, another Constantinople, and the third "all countries of the universe."

The chairs or seats of the Romanesque period (Fig. 2) exhibit an attempt to revive in the interior of the buildings, where they were used, the architectural style of contemporary monuments. They were large and massive,

and were raised on clusters of columns expanding at the back in three semicircular rows. The anonymous monk of Saint-Gall, in his chronicle written in the ninth century, alludes to a grand banquet at which the host was seated on cushions of feathers. Legrand d'Aussy tells us, in his "Histoire de la Vie Privée des Français," that at a later date—referring to the reign of Louis le Gros, in the beginning of the twelfth century—the guests were seated, at ordinary family repasts, on simple stools; but if the party was more of a ceremonious than intimate character, the table was surrounded with benches, or *bancs*, whence the term banquet is derived. The form of table was commonly long and straight, but on occasions of state it was semicircular, or like a horseshoe in form, recalling the Romanesque round table of King Arthur (Fig. 3).



Fig. 4.—Louis IX. represented in his Regal Chair, before a tapestry with fleurs-de-lis, from a Miniature of the Fourteenth Century. (MS. de la Bibl. Nat. de Paris.)

The Crusades, bringing together men of all the countries of Europe with the people of the East, made those of the West acquainted with luxuries and customs which, on returning from their chivalrous expeditions, they did not fail to imitate. We find feasts at which they ate sitting cross-legged on the ground, or stretched out on carpets in the Oriental fashion, as represented and described in miniatures contained in the manuscripts of that period. The Sire de Joinville, the friend and historian of Louis IX., informs us that this saintly king was in the habit of sitting on a carpet, surrounded by his barons, and in that manner he dispensed justice; but at the same time the

practice of using large *chaires*, or arm-chairs, continued, for there still is to be seen a throne in massive wood belonging to that period, and called *le banc de Monseigneur St. Louis*, embellished with carvings representing fanciful and legendary birds and animals. It is unnecessary to add that the lower orders did not aspire to so much refinement. In their abodes the seats in use were settles, chests, or at best benches, the supports of which were, to a slight extent, carved.

This was the period when the practice commenced of covering seats with woollen stuffs, or with silk figured on frames, or embroidered by hand, displaying ciphers, emblems, or armorial bearings. From the East was introduced the custom of hangings for rooms, composed of glazed leather, stamped and gilt. These skins of the goat or sheep were called *or basané*, because plain gilt; or embossed leather, in gold colour, was made from them. *Or basané* was also used to conceal the bare look of arm-chairs. Towards the fourteenth century tables of precious metals disappeared, in consequence of fashion ruling in favour of the stuffs which covered them; tapestry, tissues of gold, and velvets thenceforth formed the table-cloths. On great occasions, the place of the principal guests was distinguished by a canopy, more or less rich, erected above their seats, as represented in the account of the sumptuous feast given by King Charles V. to the Emperor Charles of Luxemburg, in the great hall of the palace. M. Fréguier thus describes the banquet from contemporary documents in the "Histoire de l'Administration de la Police de Paris:"—

"The dinner was served on a marble table. The Archbishop of Rheims, who had officiated that day, first took his place at table. The Emperor then sat down, then the King of France, and the King of Bohemia, the son of the Emperor. Above the seat of each of the three princes was a separate canopy of gold cloth, embroidered all over with fleurs-de-lis. These three canopies were surmounted by a larger one, also of cloth of gold, which covered the whole extent of the table, and was suspended behind the guests. After the King of Bohemia, three bishops took their place, but far removed from him, and near the end of the table. Under the nearest canopy the Dauphin was seated at a separate table, with several princes or nobles of the Court of France or of the Emperor. The hall was adorned with three buffets, or dressers, covered with gold and silver plate; these three dressers, as well as the two large canopies, were protected by a railing, to prevent the intrusion of the crowds of people who had been permitted to witness the magnificence of the display. Finally, there were to be seen five other canopies, under which were assembled princes and barons round private tables; also numerous other tables."

It is noteworthy that from the time of St. Louis these same chairs and

seats, carved, covered with the richest stuffs, inlaid with precious stones, and engraved with the armorial bearings of great houses, issued for the most part from the workshops of Parisian artisans. Those artisans, carpenters, manufacturers of coffers and carved chests, and furniture-makers, were so celebrated for works of this description, that in inventories and appraisements of furniture great care was taken to specify that such and such articles among them were of Parisian manufacture; *ex operagio Parisiensi* (Fig. 4).

The following extract, from an invoice of Etienne La Fontaine, the royal silversmith, affords, in terms which require no comment, an idea of the costliness lavished on the manufacture of an arm-chair intended for the King of France in 1352:—

"For making a fauteuil of silver and of crystal decorated with precious stones, delivered to the said seigneur, of which the said seigneur ordered the said goldsmith to make the framework, who ornamented it with several crystals, illuminated pieces, many designs, pearls, and other stones VII^{C} LXXIIII^{M} (774 louis).

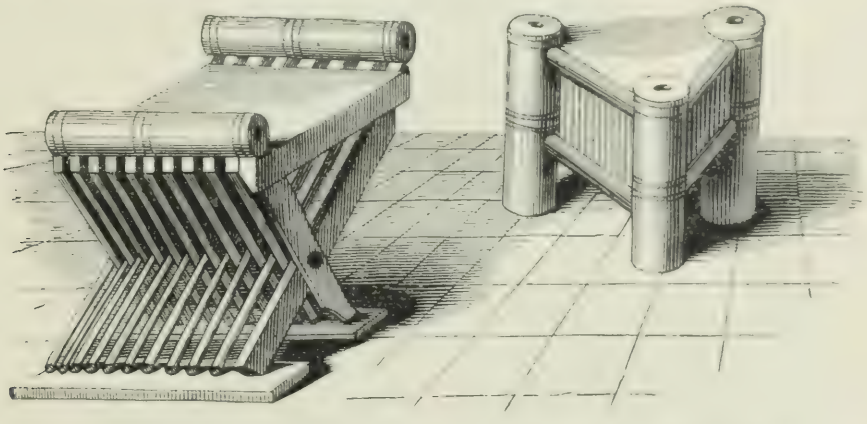


Fig. 5.—Seats from Miniatures of the Fourteenth and Fifteenth Centuries.

"For illuminated pieces placed under the crystals of the said fauteuil, of which there are 40 of the armorial bearings of France, 61 of the prophets holding scrolls, 112 half-length figures of animals on gold ground, and 4 large representations of the judgments of Solomon VI$^{XX\ M}$ (620 louis).

"For twelve crystals for the said fauteuil, of which five are hollow to hold the bâtons, six flat, and one round," &c.

It was only towards the commencement of the fifteenth century that chairs stuffed with straw or rushes first appeared; they folded in the form of the letter X (Fig. 5), the seats and arms being stuffed. In the sixteenth century, chairs with backs (*chaires* or *chayeres à dorseret*), in carved oak or chestnut, painted and gilt, fell into disuse, even in the royal castles, as being too heavy and inconvenient, and on account of their enormous size (Figs. 6 and 7).

The dresser, which has just been described as used at the grand feast of

Charles V., and which moreover has been retained, altered to a sideboard with shelves, almost to our time, was an article manufactured much less for use than for show. It was upon this dresser—the introduction of which does not appear to go farther back than the twelfth century, and the name whereof sufficiently describes its purpose—that there was displayed, in the vast halls of manorial residences, not only all the valuable plate required for



Fig. 6.—Christine de Pizan, contemporary with Charles V. and Charles VI., seated on a Chair in carved wood with back and canopy, and tapestry of worsted or figured silk. The box or chest which formed the writing-table contained books. (Miniature from a MS. in the Burgundy Library, Brussels, Fifteenth Century.)

the table, but many other objects of goldsmith's work which played no part in the banquet—vases of all sorts, statuettes, figures in high relief, jewels, and even reliquaries. In palaces and mansions the dressers were of gold, silver, or copper gilt, as were previously the tables. Persons of inferior rank had only wooden tables, but they were scrupulous in covering them with tapestry, embroidered cloth, and fine table-cloths. At one time the display of wealth on the dressers in ecclesiastical establishments attained to such a

point, that we are reminded, among other censures levelled against that fashionable exhibition of vanity, of the expostulations of Martial d'Auvergne,



Fig. 7.— Louise de Savoie, Duchess of Angoulême, mother of Francis I., seated in a high-backed Chair of carved wood. (Miniature from a MS. in the Bibl. Nat. of Paris.)

author of the historical poem, "Les Vigiles de Charles VII.," addressed to the bishops on the subject. One item significant enough is mentioned in ancient documents; it is the tribute of half a dozen small bouquets, which

the inhabitants of Chaillot were bound to tender annually to the Abbey of Saint-Germain des Prés, to decorate the dressers of Messire the Abbot.

More plain, but also more useful, were the *abace* and the *crédence*, other kinds of sideboards which generally stood at a little distance from the table; on one of these were placed the dishes and plates for removes, on the other the goblets, glasses, and cups. It may be added that the *crédence*, before it was introduced in the dining-halls, had from very remote times been used in churches, where it was placed near the altar to receive the sacred vessels during mass.

Posidonius, the Stoic philosopher, who wrote about a hundred years before the Christian era, tells us that, at the feasts of the Gauls, a slave used to bring to table an earthenware or silver jug, filled with wine, from which every guest quaffed in turn and allayed his thirst. We thus see the practice of using goblets of silver, as well as of earthenware, established among the Gauls at a period we consider primitive. In truth, those vessels of silver were probably not the productions of local industry, but the spoil which those martial tribes had acquired in their wars against more civilised nations. With regard to the vases of baked clay, the majority of those frequently exhumed from burial-grounds prove how coarse they were, though they seem to have been made with the help of the potter's wheel, as among the Romans. However that may be, we think it best to omit the consideration of the question in this place, and to resume it in the chapter on the Ceramic Art. But we must not forget to notice the custom which prevailed among the earliest inhabitants of our country, of offering to those most renowned for their valour beverages in a horn of the *urus*, which was either gilt or ornamented with bands of gold or silver. The *urus* was a species of ox, now extinct, which existed in a wild state in the forests with which Gaul was then partly covered. This horn goblet long continued to be the emblem of the highest warlike dignity among the nations who succeeded the Gauls. William of Poitiers relates, in his "Histoire de Guillaume le Conquérant," that towards the end of the eleventh century the Duke of Normandy still drank out of the horn of a bull when he held his full court at Fécamp.

Our ancient kings, whose tables were made of the most precious metals, failed not also to display rare magnificence in the plate that stood on them. Chroniclers relate, for example, that Chilperic, "on the pretext of doing honour to the people whom he governed, had a dish made of solid gold, ornamented all over with precious stones, and weighing fifty pounds;" and again, that Lothaire one day distributed among his soldiers the fragments of an enormous silver basin, on which was designed "the world, with the courses of the stars and the planets." In the absence of any authentic documents, it must be presumed that, in contrast to this regal style, or rather

far removed therefrom, the rest of the nation scarcely used any other utensils but those of earthenware or wood, or else of iron or copper.

Advancing in the course of centuries, and till the period when the progress of the ceramic art enabled its productions at length to rank among articles of luxury, we find gold and silver always preferred for dinner services; but marble, rock crystal, and glass appeared in turn, artistically worked in a thousand elegant or singular forms, as cups, ewers, large tumblers, goblets, &c. (Fig. 8).

To the goblet especially seem to belong all honorary privileges in the etiquette of the table; for the goblet, a sort of large chalice on a thin stem, was more particularly regarded as an object of distinction by the guests, on



Fig. 8.—A State Banquet in the Fifteenth Century, with the service of dishes brought in and handed round to the sound of musical instruments. (Miniature from a MS. in the Bibl. Nat. in Paris.)

account of the supposed antiquity of its origin. Thus we see represented among the presents given to the Abbey of St. Denis by the Emperor Charles the Bald a goblet which is alleged to have belonged to Solomon, "which goblet was so marvellously wrought, that never (*oncques*) was there in all the kingdoms of the world a work so delicate (*subtile*)."

The goldsmiths, sculptors, and workers in copper had recourse to all the devices of art and imagination to embellish goblets, ewers, and salt-cellars. We find allusions, in the recitals of chroniclers, the romances of chivalry, and especially in old invoices and inventories, to ewers representing men, roses, and dolphins; to goblets covered with flowers and animals; to salt-cellars in the form of dragons, &c.

Several large pieces of gold plate, discontinued at a later period, used then to glitter at grand banquets. Especially may be noted the portable fountains raised in the middle of the table, and from which during the repast flowed several sorts of beverages. Philip the Good, Duke of Burgundy, had one in the form of a fortress with towers, from the summit of which the figure of a woman pressed out hippocras (spiced wine) from her bosom, and that of a child sprinkled perfumed water.

There were also plate-holders, large dishes made to contain vessels, cups, knives; comfit-boxes, which have been replaced by our modern *bonbonnières*, and which formerly were valuable caskets chased and damaskeened; and lastly, almsboxes, a description of metal urns, richly chased; these were placed before the guests in order that, according to an ancient custom, each might place therein some portions of meat, to be subsequently distributed to the poor.

If we glance at the other minor objects which completed the table-service —knives, spoons, forks, bottle-stands, plate-mats, &c.—we shall see that they no less indicate refinement and luxury. Forks, that now seem to us so indispensable, are mentioned for the first time in 1379, in an inventory of Charles V. They had only two prongs, or rather two long sharp points. As for knives, which, with spoons, had to supply the place of forks for the guests to eat with, their antiquity is undoubted. Posidonius, whom we have already quoted, says, when speaking of the Celts: "They eat in a very slovenly manner, and seize with their hands, like lions with their claws, whole quarters of meat, which they tear in pieces with their teeth. If they find a tough morsel, they cut it with a small knife which they always carry in a sheath at their side." Of what were these knives made? Our author does not tell us; but we may assume that they were of flint or of polished stone, like the hatchets and arrow-heads so frequently found where these ancient people dwelt, and which bear testimony to their industry.

In the thirteenth century mention is made of knives, under the name of *mensaculæ* and *artavi*, which a little later were known by the word *kenivet*, from which evidently is derived *canif*. To complete this connection, we may remark that it is to be gathered, from a passage by the same author, that the blades of some knives of that period were made to fall into the handle by means of a spring, like our pocket-knives.

Spoons, which necessarily were used by all nations as soon as dishes more or less liquid were introduced, are described from the date of almost our earliest history. Accordingly we see, in the "Life of St. Radegonde," that that princess, who was constantly engaged in charitable acts, used a spoon for feeding the blind and the helpless whom she took under her care.

At a very remote period we find in use *turquoises*, or nut-crackers. Cruet-

stands were, excepting in form, very similar to stands for two bottles; for they are thus described: "A kind of double-necked bottle in divisions, in which to place two sorts of liquors without mixing them." The plate-mats were our *dessous de plat*, made of wicker, wood, tin, or other metal.

The manufacture of the greater number of these articles, if intended for persons of rank, did not fail to engage the industry of artisans and the talent of artists. Spoons, forks, nut-crackers, cruet-stands, sauce-boats, &c., furnished inexhaustible subjects for embellishment and chasing; knife-handles, made of ivory, cedar-wood, gold, or silver, were also fashioned in the most varied forms. Until ceramic art introduced plates more or less costly, they naturally enough followed the shape of dishes, which in fact they are, on a small scale. But if the dishes were of enormous size, the plates were always very small.

If from the dining-room we pass to the kitchen, so as to form some idea of culinary utensils, we must admit that, anterior to the thirteenth century, the most circumstantial documents are all but silent on the subject. Nevertheless, some of the ancient poets and early romancers allude to those huge mechanical spits on which, at one and the same time, large joints of different kinds, entire sheep, or long rows of poultry and game, could be roasted. Moreover, we know that in palaces, and in the mansions of the nobility, copper cooking-utensils possessed real importance, because the care and maintenance of the copper-ware was entrusted to a person who bore the title of *maignen*, a name still given to the itinerant tinker. We also find that from the twelfth century there existed the corporation of braziers (*dinans*), who executed historical designs in relievo by the use of the hammer in beating out and embossing copper—designs that would bear comparison with the most elaborate works produced by the goldsmith's art. Some of these artisans obtained such reputation that their names have descended to us. Jean d'Outremeuse, Jean Delamare, Gautier de Coux, Lambert Patras, were among those who conferred honour on the art of braziers' work (*dinanderie*).

From the kitchen to the cellar the distance is usually but short. Our forefathers, who were large consumers, and in their way had a delicate appreciation of the juice of the vine, understood how to store the barrels which contained their wines in deep and spacious vaults. The cooper's art, when almost unknown in Italy and Spain, had existed for a long time in France, as is attested by a passage taken from the "Mémoires de l'Académie des Inscriptions:" "We see by the text of the Salic law that, when an estate changed hands, the new proprietor gave, in the first place, a feast, and the guests were bound to eat, in the presence of witnesses, a plate of boiled minced meat. It is remarked in the 'Glossaire de Du Cange' that, among the Saxons and Flemings, the word *boden* means a round table; because

the peasantry used the bottom of a barrel as a table. Tacitus says that for the first meal of the day the Germans had each their own table; that is to say, apparently a full or empty barrel placed on end."

A statue of Charlemagne alludes to *bons barils* (*bonos barridos*). These barrels were made by skilled coopers (Fig. 9), who gave all their care to form of staves, hooped either with wood or iron, the casks destined to hold the produce of the vintage. According to an old custom, still in vogue in the south of France, the inside of the wine-skin used to be painted with tar, in order to give a flavour to the wine; to us this would perhaps be nauseous, but at that time it was held in high favour. In alluding to wine-skins, or sewn skins coated with pitch, we may remark that they date from the earliest historic

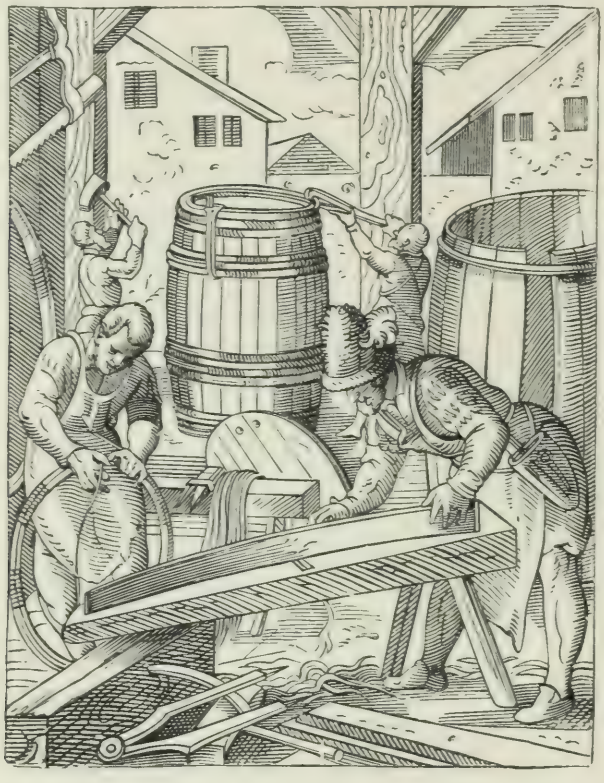
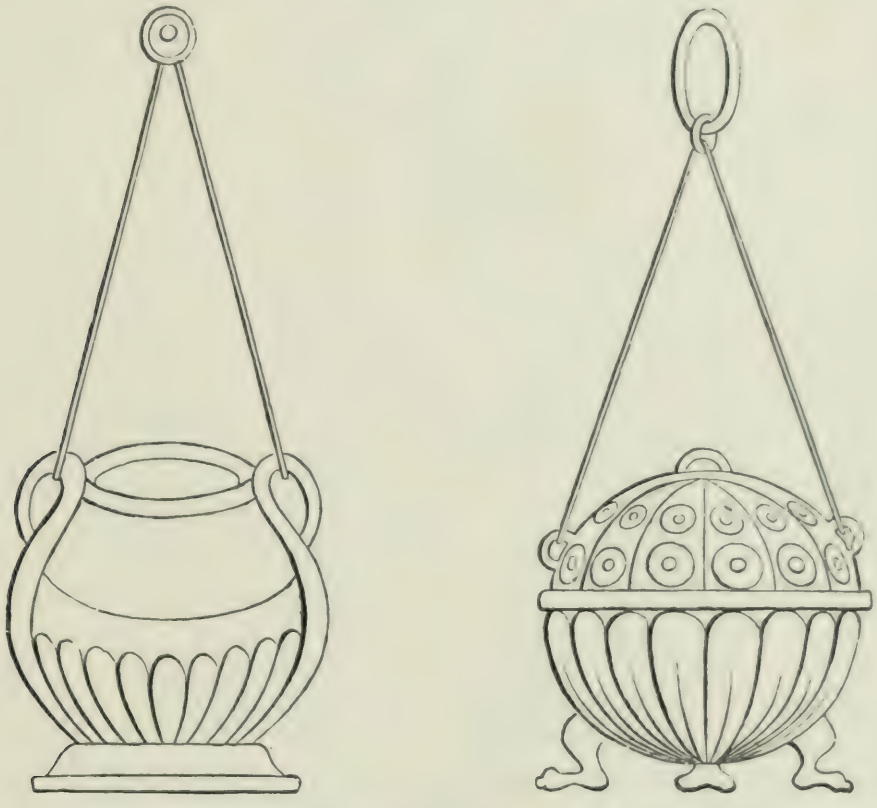


Fig. 9.—A Cooper's Workshop, drawn and engraved in the Sixteenth Century by J. Amman.

times. They are still employed in countries where wine is carried on pack-animals, and they were much used for journeys. If a traveller was going into a country where he expected to find nothing to drink, he would fasten a wine-skin on the crupper of his horse's saddle, or at least would sling a small leather wine-skin across his shoulder. Etymologists even maintain that from the name of these light wine-skins, *outres légères*, was derived the old French word *bouteille;* that first having been designated *bouchiaux* and *boutiaux*, they finally were named *bouties* and *boutilles*. When, in the thirteenth century, the Bishop of Amiens was setting out for the wars, the tanners of his episcopal town were bound to supply him with two leathern *bouchiaux*—one holding a hogshead, the other twenty-four *setiers*.

Some archæologists maintain that, when there had been a very abundant vintage, the wine was stored in brick-built cisterns, such as are still made in Normandy for cider; or that they were cut out of the solid rock, as we see them sometimes in the south of France; but it is more probable that these ancient cisterns, which are perhaps of an earlier date than the Middle Ages, were more especially intended for the process of fermentation—that is to say, for making wine, and not for storing it; which, indeed, under such unfavourable circumstances, would have been next to impossible.

What light did our ancestor's use? History tells us that at first they used lamps with stands, and hanging lamps, in imitation of the Romans;



Figs. 10 and 11.—Hanging Lamps of the Ninth Century, from Miniatures in the Bible of Charles the Bald. (Bibl. Nat. de Paris.)

which, however, must not lead us to the conclusion that, even in the remotest times of our annals, the use of fat and wax for such purposes was absolutely unknown. This fact is the less doubtful because, from the time when trade corporations were formed, we find the makers of candles and wax-chandlers of Paris governed by certain statutes. As for the lamps, which, as in ancient times, were on stands placed for this purpose in the houses, or were suspended by light chains (Figs. 10 and 11), they were made in accordance with the means of those for whom they were intended, and were of baked earth, iron, brass, and gold or silver, all more or less ornamented. Lamps and candlesticks are not unfrequently mentioned in the inventories of the Middle Ages. In the fifteenth and sixteenth centuries, German artisans made torch-

holders, flambeaux, and chandeliers in copper, wrought and embellished with representations of all kinds of natural or fantastic objects; and in those days these works of art were much in request. The use of lamps was all but general in the early days of the monarchy; but as the somewhat dim and smoky flame which they furnished did not give sufficient brilliancy to the



Fig. 12.—Bed furnished with Canopy and Curtains, from a Miniature at the end of the Fourteenth Century. (MS. de la Bibl. Nat. de Paris.)

entertainments and solemn assemblies held in the evening, it became an established custom to add to these lamps the light of resinous torches, which serfs held in their hands. The tragic episode of the Ballet des Ardents, as told by Froissart—which we shall hereafter relate in the chapter on Playing Cards—shows that this custom, which we already see alluded to in Grégoire de Tours, our earliest historian, was in fashion until the reign of Charles VI.

In subjugating the East, the Romans assumed and brought back with them extreme notions of luxury and indolence. Previously their bedsteads were of planks, covered with straw, moss, or dried leaves. They borrowed from Asia those large carved bedsteads, gilt and plated with ivory, whereon were piled cushions of wool and feathers, with counterpanes of the most beautiful furs and of the richest materials.

These customs, like many others, were handed down from the Romans to the Gauls, and from the Gauls to the Franks. With the exception of bed-linen, which came into use much later, we find from the time of our earliest kings the various sleeping appliances nearly as they are now—the pillow (*auriculare*), the foot-coverlet (*lorale*), the counterpane (*culcita*), &c. No mention, however, is made of curtains (or *courtines*).

At a later period, while still retaining their primitive furniture, bedsteads vary in their shapes and dimensions: those of the poor and of the monks are narrow and homely; among kings and nobles they, in process of time, became veritable examples of the joiner's work, and were only to be reached by the aid of stools, or even steps (Fig. 12). The guest at a château could not receive any greater honour than to occupy the same bed as the lord of the manor; and the dogs by whom the seigneurs—all great sportsmen—were constantly surrounded had the privilege of reposing where their masters slept. Hence we recognise the object of these gigantic bedsteads, which were sometimes twelve feet in width. If we are to believe the chronicles, the pillows were perfumed with essences and odoriferous waters; this we can understand to have been by no means a useless precaution. We see, in the sixteenth century, Francis I. testifying his great regard for Admiral Bonnivet by occasionally admitting him to share his bed.

Having completed our review of furniture properly so called, we have now to treat of what may be termed highly artistic articles of furniture—that is, those on which the wood-workers exercised their highest talents—elevated seats of honour, chairs and arm-chairs, benches and tressels; all of which were frequently ornamented with figures in relief, very elaborately sculptured with a knife (*canivet*); the *bahuts*, a kind of chest with either a flat or convex top, resting on feet, and opening on the upper side, whereon were placed stuffed leather cushions (Fig. 13); tubs, buffets, presses, coffers both large and small, chess-boards, dice-tables, comb-boxes, which have been superseded by our dressing-cases, &c. Many specimens of these various kinds of furniture have descended to our time; and they prove to what a degree of perfection and of elaborate finish the art of cabinet-making and of inlaying had attained in the Middle Ages. Elegance and originality of design in inlaid metals, jasper, mother-of-pearl, ivory, carving, various kinds of veneering and of stained wood, are all found combined in this description of furniture:

some of which was ornamented with extreme delicacy (Plate I.), and still remains inimitable, if not in all the details of its execution, at least in its rich and harmonious effect.

At the time of the Renaissance, cabinets with numerous drawers and in several compartments were introduced. These were known in Germany by the name of artistic cabinets (*armoires artistiques*). The sole object of the maker was to combine in one piece of furniture, under the pretext of utility, all the fascination and gorgeous caprices of decorative art.

To the Germans must be awarded the merit of having been the first to distinguish themselves in the manufacture of these magnificent cabinets or presses; but they soon found rivals in both the French (Fig. 14) and Italians (Fig. 15), who proved themselves equally skilful and ingenious in the execution of this kind of manufacture.

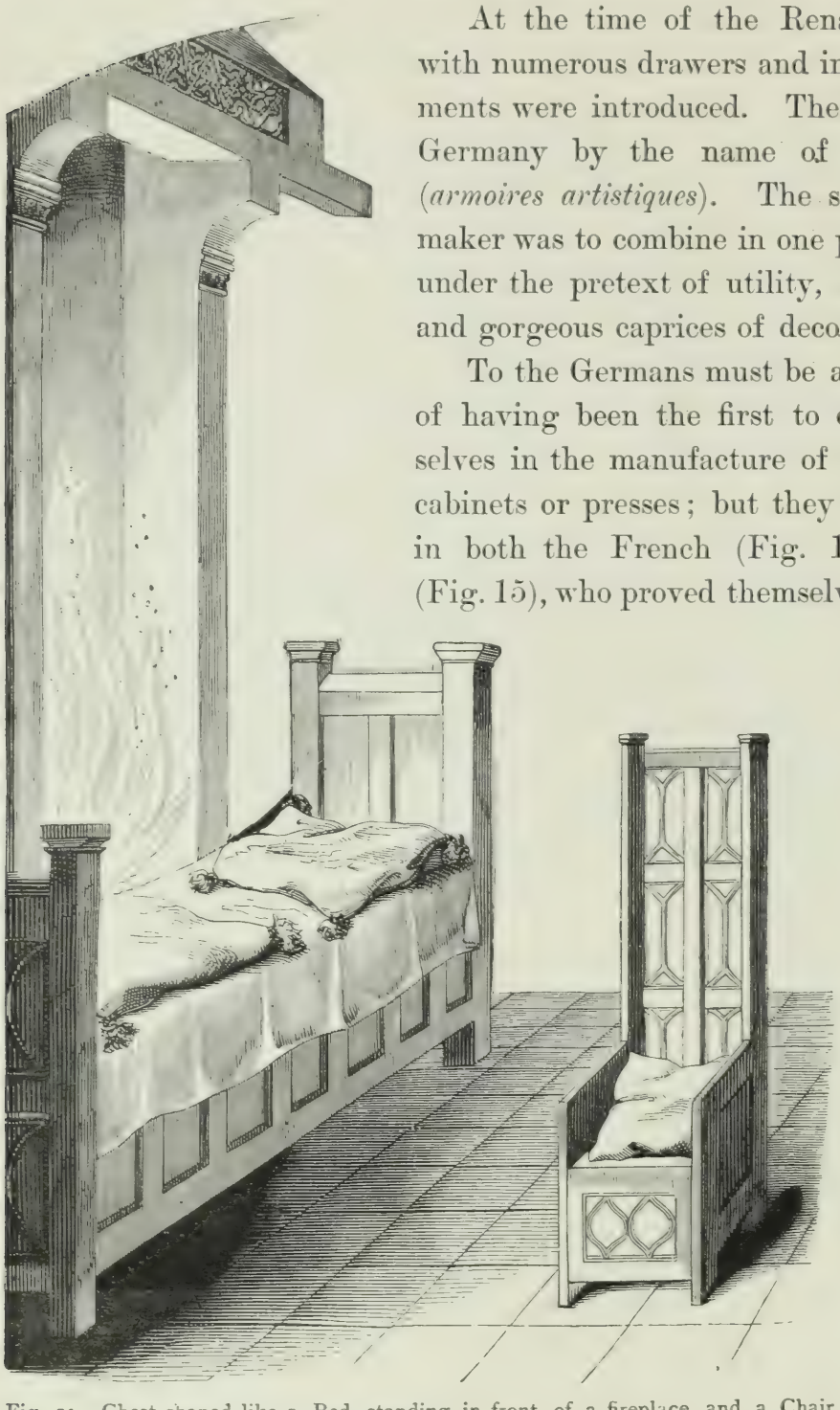
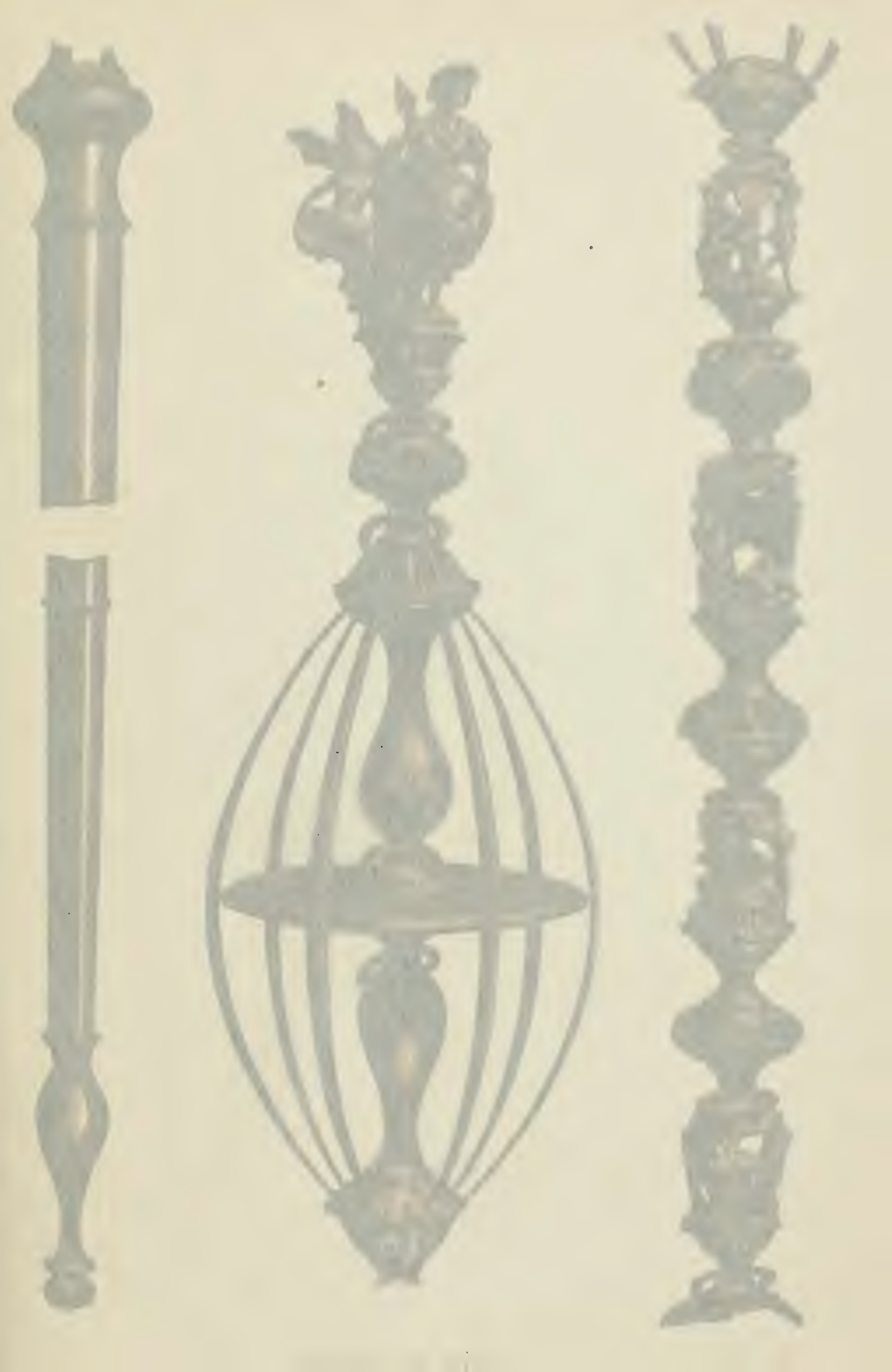


Fig. 13.—Chest shaped like a Bed, standing in front of a fireplace, and a Chair with cushions in carved wood, from miniatures of the Fifteenth Century. (Bibl. Roy. de Bruxelles.)

The art of working in iron, which can legitimately rank as one of the most notable industries of the Middle Ages, soon came to lend its aid to that of cabinet-making, both in embellishing and giving solidity to its *chefs-d'œuvre*. The ornamentation of cabinets and coffers was remarkable for the good taste and the high finish displayed in it. In the hands of skilful artisans and unknown artists dating from the twelfth to the sixteenth century iron seemed to assume great ductility—







DISTAFF OF WOOD

indeed, we might say unprecedented submission. Observe, in the gratings of courtyards, in the iron-work of gates, how lines are interlaced, how attractive are designs, how wrought stems are delicately lengthened out, at once strong but light, and how they expand with natural grace into leaves, fruits, and symbolic figures.

Moreover, the workers in metal did not confine themselves to the application of iron to articles already prepared and manufactured by other artisans;



Fig. 14.—Small Cabinet for Jewels, in carved wood, after the style of Jean Goujon, from the Château d'Ecouen, and which formerly belonged to the Montmorency family. (In the Collection of M. Double.)

they had also to originate and execute, to ornament caskets and reliquaries: but their special art was to manufacture bolts (Fig. 16), locks, and keys. Examples of this kind of ancient work will always be admired. "Locks," says M. Jules Labarte, "were at that time carried to such a degree of perfection, that they were considered as veritable objects of art; they were carried from place to place, as would have been done with any other valuable article of furniture. Nothing could be more artistic than the figures in high relief, the armorial bearings, the letterings, the ornaments, and the

engravings which embellished that portion of the key which the figures grasp (Fig. 17), and for which we have substituted a common ring."

Glass and glazing claim particular notice. It may be said that glass was known in the remotest ages, for Phœnicia and ancient Egypt were renowned for their innumerable productions in vitrified sand. In Rome they cast, cut, and engraved glass—they even worked it with the hammer, if we are to believe Suetonius, who relates that a certain artist had discovered the secret of making glass malleable. This industrial art, which extended and improved under the emperors, found its way to Byzantium, where it flourished during several centuries; until Venice, claiming as she then did a prominent position in the history of the arts, imported the process of the Byzantine method of

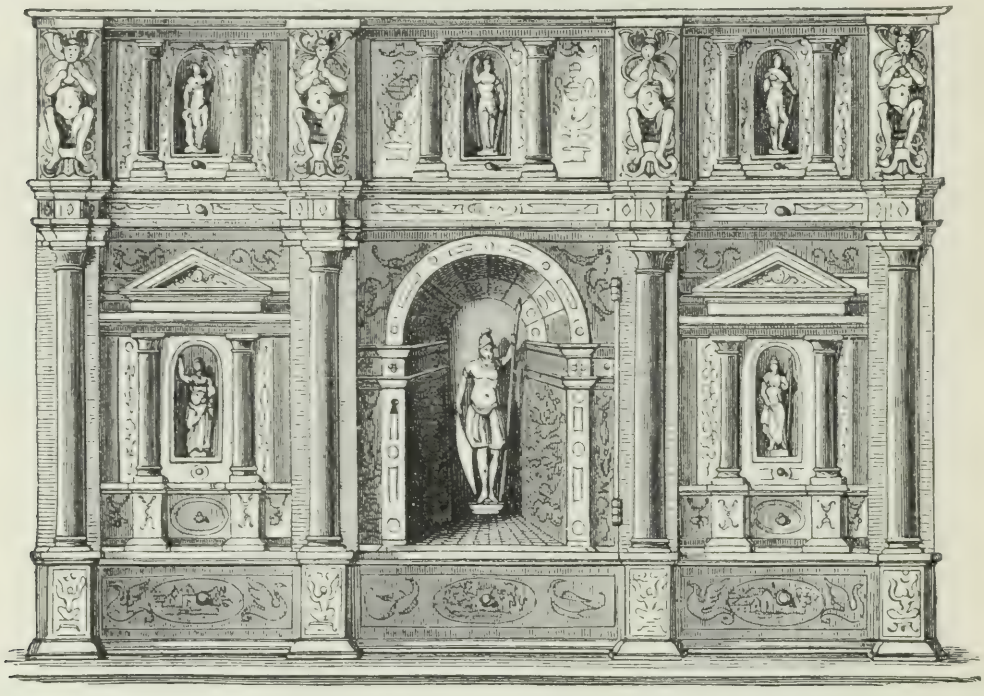


Fig. 15.—Cabinet in Damaskeened Iron, inlaid with gold and silver. An Italian work of the Sixteenth Century.

making glass, and in her turn excelled in this manufacture. Although articles in glass and crystal, painted, enamelled, and engraved, are frequently alluded to in historical and poetical narratives, and also in the inventories of the Middle Ages, we know they were all the result of Greek or Venetian manufacture. In this art France especially seems to have been somewhat late in taking her first artistic step; such objects as were manufactured for the use of the rich never passed beyond the limits of the rudest art. We should, however, observe that France must have long been acquainted with the art of glazing, for in the middle of the seventh century we find St. Benoît—called Biscop, who built so many churches and convents in England—coming to France in search of workmen for the purpose of glazing the church and the cloisters of his abbey at Canterbury. And it is also mentioned in the

chronicles of the Venerable Bede, that the French taught their art to the English glaziers.

Towards the fourteenth century the windows of even the commonest houses were generally glazed. At that date glass manufactories were found in operation everywhere; and although they may not have rivalled in a remarkable degree their predecessors of the Merovingian period, they never-

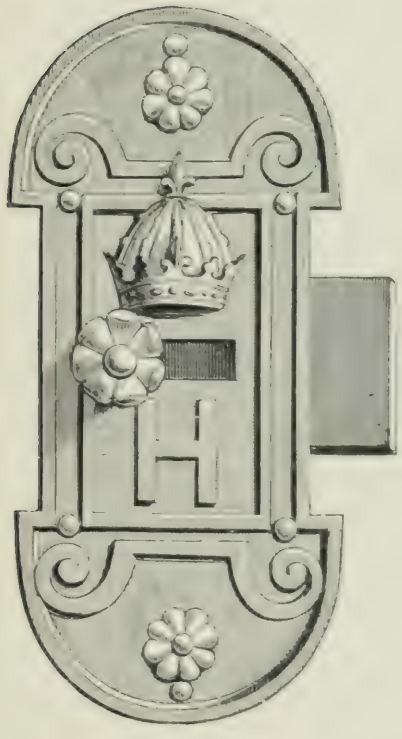


Fig. 16.—Bolt of the Sixteenth Century, with initial of Henry II. (In the Castle of Chenonceaux.)

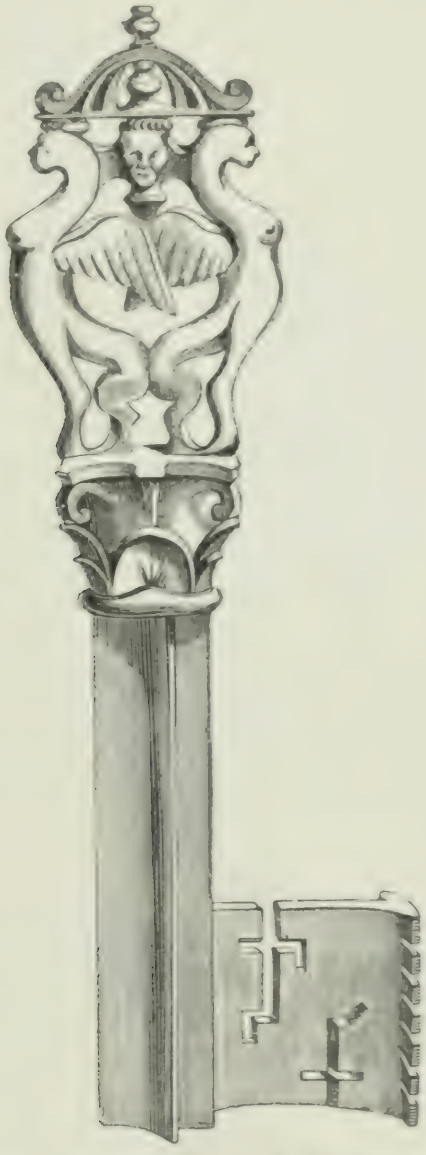


Fig. 17.—Key of the Thirteenth Century, with two grotesque figures back to back. (Soltykoff Collection.)

theless made in large quantities all kinds of articles ordinarily in use, as we can judge by the terms of a charter, dated 1338, by which one Guionnet, in order to have the privilege of establishing a glass factory in the forest of Chambarant, was bound to furnish as an annual due to his seigneur, Humbert, Dauphin of Viennois, one hundred dozen glasses in the shape of a bell, twelve dozen small shallow glasses, twenty dozen goblets, twelve dozen amphoræ, twenty dozen lamps, six dozen candlesticks, one dozen large

cups, one large stand (or *nef*), six dozen dishes without borders, twelve dozen jars, &c.

In the thirteenth century an English monk wrote a treatise on optics, in which allusion is made to mirrors lined with lead. Nevertheless, mirrors of silver continued in use among the rich, and of iron and polished steel by the

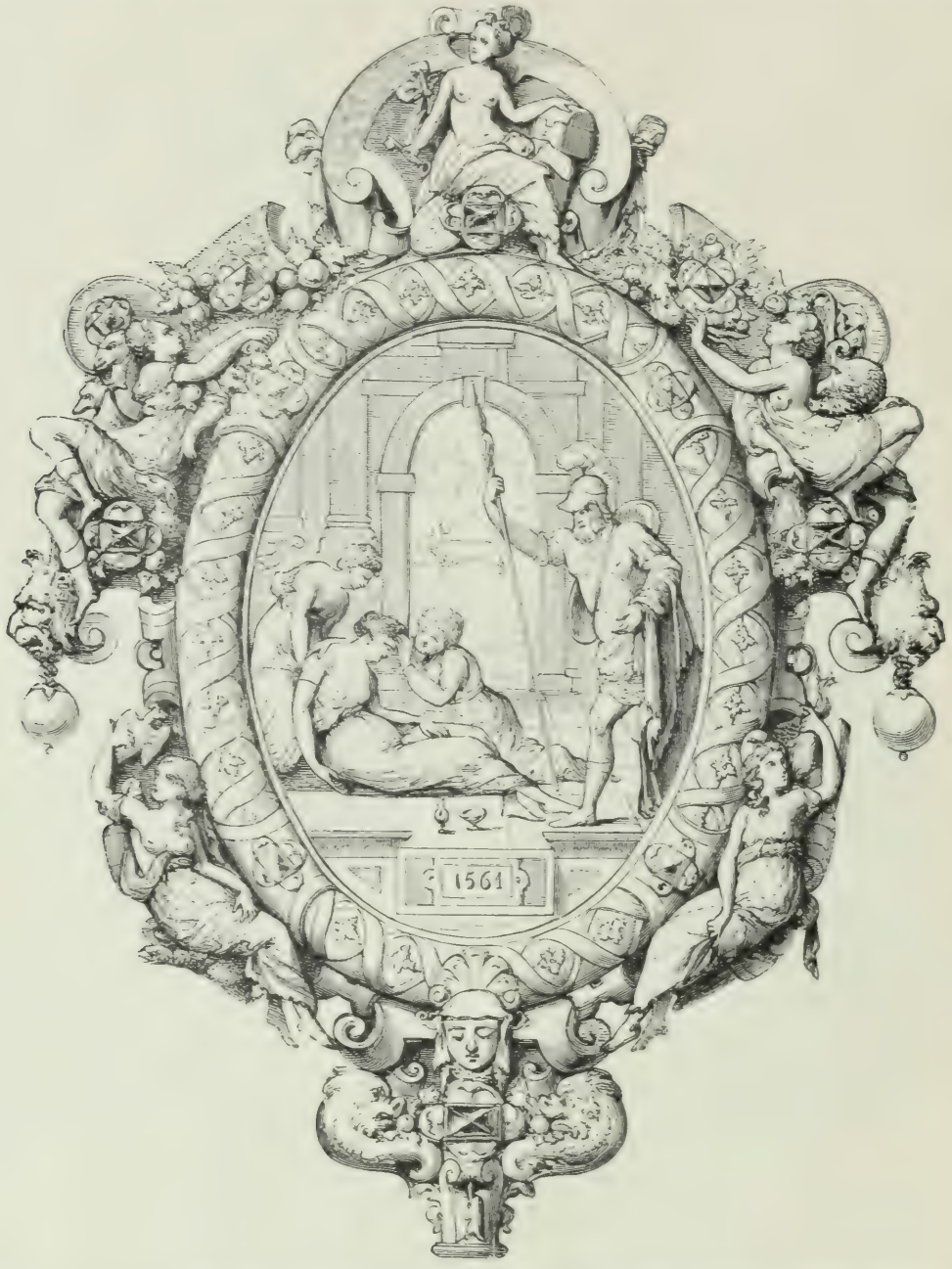


Fig. 18.—Hand or Pocket Mirror in gold or chased silver, from an engraving by Etienne Delaulne, a celebrated French goldsmith and engraver (Sixteenth Century).

poorer classes, till the time when glass became less expensive, and Venetian looking-glasses were introduced, or cleverly imitated, in all European countries; metal mirrors, which easily became dim, and did not give the natural colour to reflected objects, were then discontinued. At the same time the elegant shape of the ancient hand mirrors was retained, the workers in gold and silver still continuing to encircle them with most graceful designs; the only difference

being that the surface of polished steel or silver was replaced by a thick and bright piece of Venetian glass, sometimes ornamented with reflected designs produced in the coating of quicksilver (Fig. 18).

From all these details, the reader will turn with pleasure to give a glance at the general effect of furniture in use for domestic purposes; and thus to make synthesis follow analysis. Fig. 19, a reproduction, taken from the "Dictionnaire du Mobilier Français," by M. Viollet-le-Duc, represents a dwelling-room of a rich nobleman in the fourteenth century. What we now designate as a bedroom, and which was then called simply *cambre* or *chambre*, contained, besides the bed—which was very large—a variety of other furniture in use for the ordinary requirements of daily life; for the time that was not given to business, to outdoor amusements, to state receptions, and to meals, was passed, both by nobles and citizens, in this room. In the fourteenth century requirements for comfort had developed themselves in a remarkable degree in France. To be convinced of this, we have only to glance at the inventories, to read the romances and narratives of the day, and to study with some little care the mansions and houses erected in the reign of Charles V. A huge chimney admitted many persons to the fireside. Near the hearth was placed the *chaire* (seat of honour) of the master or of the mistress. The bed, which usually stood in a corner, surrounded by thick curtains, was effectually screened, and formed what was then called a *clotet;* that is, a sort of small room enclosed by tapestry. Near the windows were *bancals*, or benches with backs covered with drapery, on which persons could sit and talk, read, or work, while enjoying the view. A dresser was ranged along one side of the room, and on its shelves were placed pieces of valuable plate, dishes for comfits, and flower-vases. Small stools, arm-chairs, and, especially, numerous cushions were placed here and there in the room. Flemish carpets, and those which were called *sarrasinois*, covered the floor. This was composed of enamelled tiles; or, in the northern provinces, of thick squares of polished oak. These large, lofty, wainscoted rooms always communicated with private staircases, through dressing-rooms and *garderobes*, in which were located the domestics in immediate attendance.

Let us now pass from domestic furniture to that used for ecclesiastical purposes.

We know that in the early ages of Christianity religious ceremonies were characterised by the greatest simplicity, and that the buildings in which the faithful were wont to assemble were for the most part devoid of any kind of decoration. By degrees, however, rich display entered into churches, and pomp accompanied the exercise of religious worship, especially at the period when Constantine the Great put an end to the era of persecutions and proclaimed himself the protector of the new faith. It is related that among the

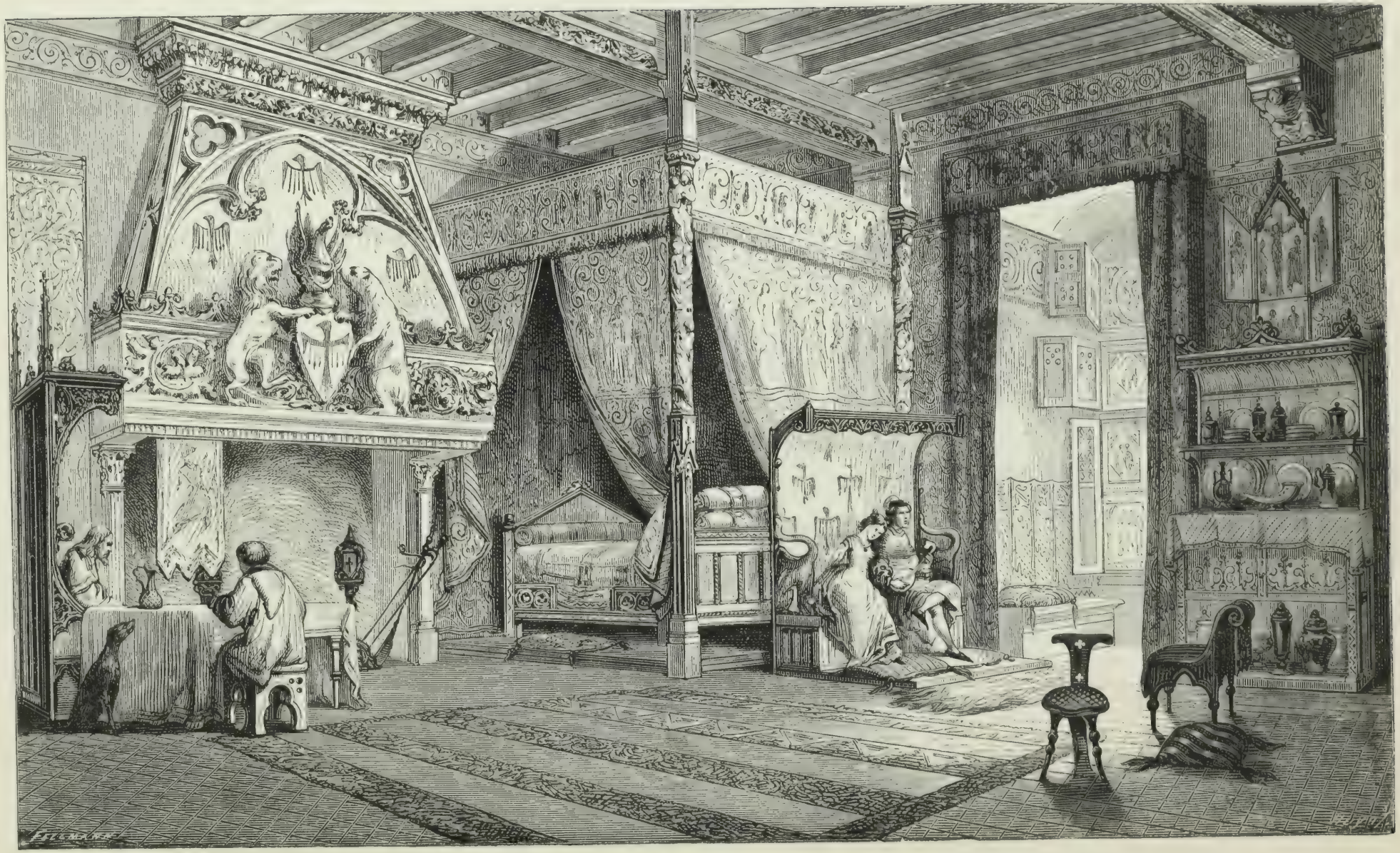


Fig. 19.—Dwelling-room of a Seigneur of the Fourteenth Century.

rich presents which this emperor distributed throughout the Christian temples in Rome, were a golden cross weighing two hundred pounds, patens of the same metal, lamps representing animals, &c. At a later period, in the seventh century, St. Eloi, who was a celebrated goldsmith before he became Bishop of Noyon, gave his whole mind and talents to the manufacture of church ornaments. He enlisted from among the monks of the various monasteries subject to his episcopal authority all those whom he fancied had an aptitude for these works of art; he instructed and directed them himself, and made them excellent artists; he transformed entire monasteries into gold and silversmiths' workshops; and numerous remarkable works increased the splendour of the Merovingian basilicas. Such, for example, were the shrine of St. Martin of Tours, and the tomb of St. Denis, the marble roof of which was profusely ornamented with gold and precious stones. "The bounty of Charlemagne," says M. Charles Louandre, "added new riches to the immense wealth already accumulated in the churches. Mosaics, sculpture, the rarest kinds of marble, were lavished on those basilicas for which the emperor evinced partiality; but all these treasures were dispersed by the Norman invasions. From the ninth to the eleventh centuries it would seem that, with the exception of a few shrines and crosses, objects employed for ecclesiastical purposes were not enriched by the addition of anything noteworthy; at any rate the works of that period and those of anterior date have not been handed down to us, if we except some rare fragments. The reason is, that, independently of the constant causes of destruction, the furniture of churches was renewed towards the end of the eleventh century, when the edifices themselves were rebuilt; and it is only from the date of this mystical Renaissance that we begin to find in the texts precise indications, and in museums or temples perfectly preserved monuments."

Ecclesiastical furniture includes altars, altar-screens, pulpits, monstrances, chalices, incense-burners, candlesticks or lamps, shrines, reliquaries, basins for containing holy water, and some other objects of lesser relative importance, as crosses, bells, and banner-poles. To these we may add votive offerings, which were generally either of gold or silver.

In the infancy of religious worship the altar took two distinct shapes; sometimes the form of a table, with a top of stone, wood, or metal, supported by legs or by columns; sometimes it resembled an ancient tomb or a long coffer, narrowed at the base, and surmounted by a similar covering, which invariably formed the upper portion, or the table of the altar.

In addition to altars more or less monumental which were fixtures in the churches, and which, from the earliest period, were placed under *ciboria* (a kind of daïs or canopy supported by columns), small portable altars were employed in order to meet the requirements of the service. They were

intended to accompany the bishops, or the ordinary clergy, who had to preach the faith in countries where no churches existed. These altars, which were alluded to when the Christian religion had made but slight progress, were no longer seen after it became general; but we again find them at the time of the Crusades, when pious pilgrims, who journeyed from place to place preaching the Gospel, were obliged to say mass in fields and public places, where the faithful assembled to hear them, and to "take up the cross."

Throughout all the periods of the Middle Ages the ornamentation of the altar was everywhere an object of the most extraordinary pomp and of the most elevated artistic taste. Among marvels of this kind we must name, as occupying a leading place, the gold altar of St. Ambrose, in Milan, which dates from 835, and those of the cathedrals of Basle and Pistoia, which belong

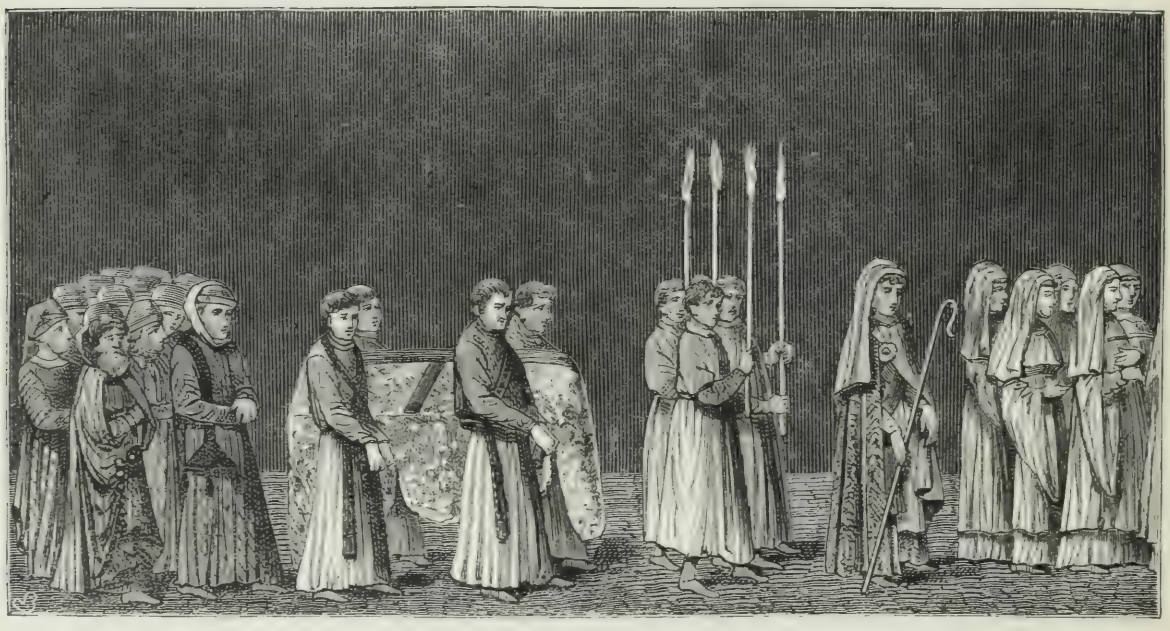


Fig. 20.—An Altar-cloth embroidered in silver on a black ground, representing the procession of a friar of the Abbey of St. Victor (Fifteenth Century). (Copied from the original belonging to M. Achille Jubinal.)

to the eleventh and twelfth centuries. These gold hammer-wrought altars were chased and sometimes enamelled, and in addition to remarkably well executed designs in carved work, they usually also had on them portraits of the donors.

The altars and tabernacles were executed with an equal amount of art and costliness; and from the earliest period of the fabrication or the importation of carpets, embroideries, and gold and silver fabrics, we see them employed for the purpose of covering, adorning, and rendering more striking and imposing the altar and its accessories (Fig. 20).

The chalice and the altar-vessels, which date from the very cradle of Christian worship, since without these sacred vases the fundamental services of the religion of Jesus Christ could not have been performed, perhaps owe

it to this exceptional fact that they are not spoken of before the eleventh century (Fig. 21). In truth, nowhere do we find an indication of their ordinary shape nor of the mode of their manufacture in early times; but it is reasonable to suppose that the chalice originally was identical with the goblet of the ancients, as it was in times approaching nearer to our own; or perhaps, to define it more particularly, was the well-known *kamap* (drinking-cup), the earliest type of which tradition endeavours to trace to so early a date. At a later period, and until the time when the artists of the Renaissance, being called upon to remodel sacred ornaments, transformed them into marvels of art, on which they lavished all the resources of casting, chasing, and glyptic, we observe that chalices continued to be manufactured with the greatest care, adorned with exquisite elegance, and enriched with all the brilliancy that art could give them.

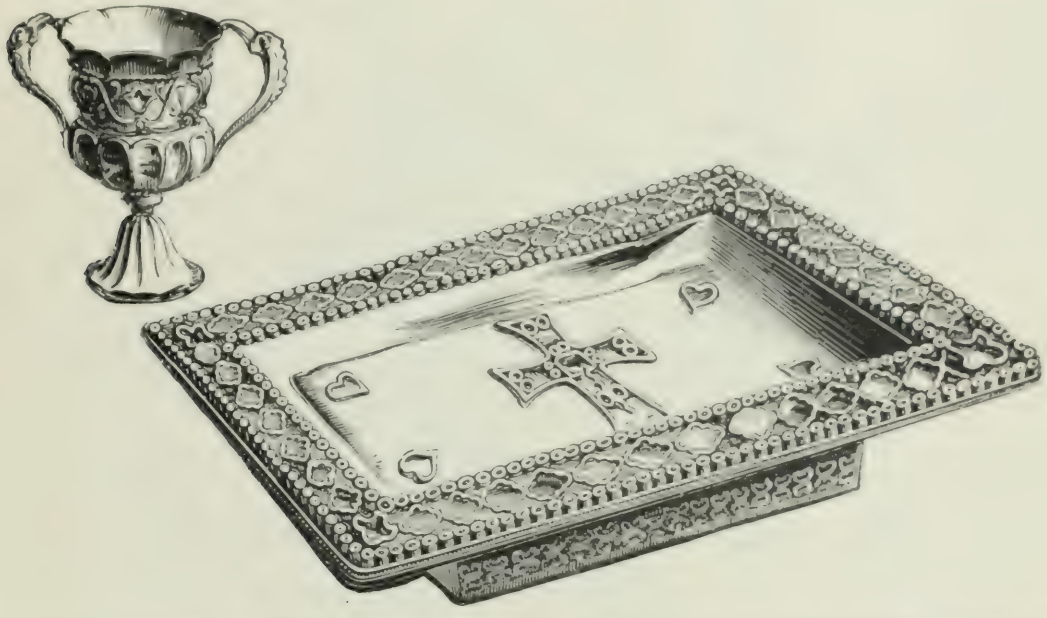


Fig. 21.—An Altar Tray and Chalice in enamelled gold, supposed to be of the Fourth or Fifth Century, found at Gourdon, near Chalon-sur-Saône, in 1846. (Cabinet des Antiques, Bibl. Nat. de Paris.)

All that can be said regarding the chalice applies equally to the monstrance and the pyx employed to contain and to exhibit the consecrated wafer, as also to the censer, which originated in the Jewish form of worship, and which, in accordance with the successive epochs of Christianity, affected different mystical and symbolic shapes (Fig. 22). Originally they were suspended by three chains, which, according to tradition, signified "the union of the body, the soul, and the divinity in Christ." At another period the censers represented, in miniature, churches and chapels with pointed arches. Again, at the Renaissance, they took the form now in use.

From the first, the lighting of churches was, to a certain extent, carried out on much the same principle as that employed in important mansions. Fixed or movable lamps were used; also wax candles in chandeliers, for the

ornamentation of which the pious donors and pious artisans, the former paying the latter, vied with each other in skill and liberality. We may here observe that even in the early days of Christianity numerous candlesticks were generally employed both by day and by night. The candlesticks on the altar represented the apostles surrounding Christ; thus their number ought to be twelve. Placed around the dead, they signified that the Christian finds light beyond the grave. To the faithful they typified the day which shines brightly in celestial Jerusalem. The worship of relics, established in the early days of the Church, subsequently led to the introduction of shrines and reliquaries—a kind of portable tomb which the disciples of the Gospel devoted to the memory of martyrs and confessors of the faith.

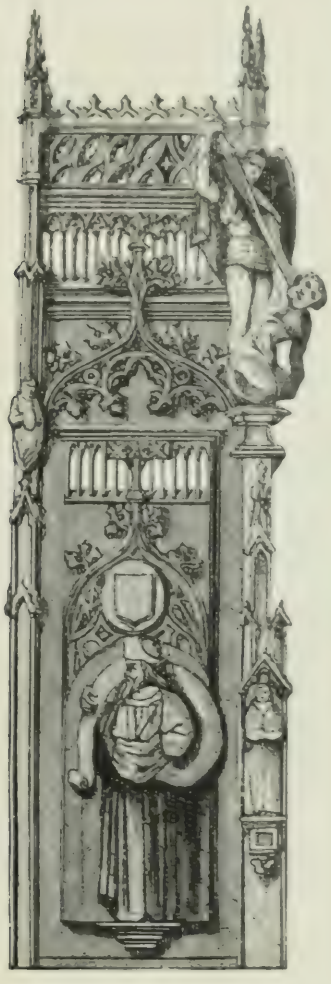


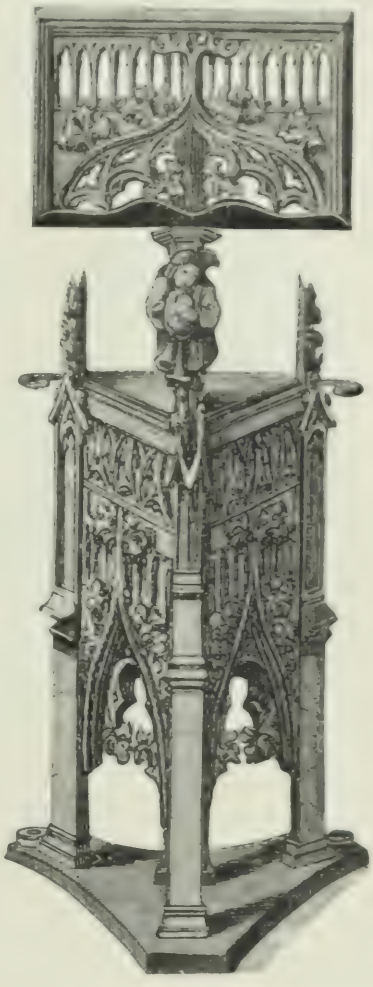
Fig. 22.—Censer of the Eleventh Century, recalling the shape of the Temple of Jerusalem, in copper repoussé. (Formerly in Metz Cathedral, now at Trèves.)

Owing to the care bestowed on some of these by St. Eloi, as early as the seventh century, they had become real marvels of intrinsic richness and artistic finish. Nevertheless we are unacquainted with the shape which in accordance with the Christian liturgy was originally given to the shrines and reliquaries, although the Latin word *capsa*, from which the word *châsse* (shrine) is derived, conveys the idea of a kind of box or coffer. Indeed this shape was retained for a long time by the whole of Christendom; but the majority of shrines in gold and silver work which do not date further back than the eleventh or twelfth century represent tombs, chapels, and even cathedrals. This symbolic shape continued in use to the time of the

Renaissance, but with successive modifications suggested by the architectural style of each period. We thus see there was no precious material or delicate workmanship which was not employed to contribute in making the shrines and reliquaries more magnificent. Gold, silver, rare marbles, precious stones, were lavished on them; the chaser and enameller embellished them with figures and emblems, with incidents taken from Holy Writ and from the lives of saints.

We know that in the early days of Christianity the rite of baptism was





Figs. 23 and 24.—Stall and Reading-desk in carved wood, from the Church of Aosta (Fifteenth Century).

performed by immersion in rivers or in fountains, but at a period nearer to our own time basins or vessels of various dimensions were placed in a small detached edifice by the side of the church; into these the neophytes were plunged when receiving the first sacrament. These baptisteries disappeared as soon as the practice of sprinkling holy water on the forehead was definitely substituted for that of immersion. Baptismal fonts then became what they now are, that is a kind of small erection above the level of the floor—piscinas, shells (*vasques*), or basins, recalling to our minds, though on a reduced scale, the primitive baptisteries. They were placed inside the church, either near

the entrance or in one of the side chapels. At various periods they were made of stone, marble, or bronze; and were ornamented with subjects relating to the rite of baptism. It was the same with the holy-water basins, which, according to ancient custom, were placed at the entrance to the church, and generally assumed the form of a shell or of a large amphora, when not made simply of a hollowed stone to recall the ancient baptismal vessels.

We must not overlook the altar and procession crosses, which, as the divine emblems of the Christian faith, could not fail to become real objects of art even from the time of the catacombs. It would be needless repetition to enumerate here the different materials used in the manufacture of crosses, the various shapes that were given to them, according to the purpose for which they were intended and the subjects and figures represented. The sculptor,



Fig. 25.—Bas-relief in carved wood representing a Domestic Scene, from a Miserere in the Choir of the Cathedral of Rouen (Fifteenth Century).

the modeller, the chaser, the enameller, and even the painter were associated with the goldsmith in producing exquisite works of this kind. The arts of the wood-carver and of the worker in iron, which produced such marvels for household use, could not fail to find scope in the manufacture of objects for religious purposes. It was especially in making pulpits, ornamental screens, wainscoting, and stalls that the art of the wood-carver became renowned; he was no longer simply an artisan, but became an artist of a very high order. In the ornamentation of choir and tomb railings, the iron-work on doors, of bolts, locks, and keys, the remarkable talent of the locksmiths of the Middle Ages was displayed. Let us here remark, that in the early days of worship the pulpit was simply a kind of stool on which the preacher stood in order that his congregation might see him. By degrees the pulpit was raised on

supports or columns; and later again, but only towards the end of the fifteenth century, we find it fixed at a great height against one of the central pillars of the church, and usually magnificently carved, as was also the sounding board by which it was surmounted.

To form an idea of the degree of perfection attained in wood-carving from the thirteenth to the fourteenth century, we ought to inspect the stalls of St. Justine, at Padua, those of the cathedrals of Milan and Ulm, the church of Aosta (Figs. 23 and 24), &c., and the stalls of the churches of Rodez, Albi, Amiens, Toulouse, and Rouen (Fig. 25). And if we would examine a very ancient example of the art attained by workers in iron, we have but to notice the hinges, dating from the thirteenth century, which stretch, in arabesque designs, over the panels of the western door of Notre-Dame, in Paris.



Fig. 26.—Design on the Stalls in the Church of St. Benoît-sur-Loire

TAPESTRY.

Scriptural Origin of Tapestry.—Needlework Embroidery in Ancient Greek and Roman Times.—Attalic Carpets.—Manufacture of Carpets in Cloisters.—Manufactory at Poitiers in the Twelfth Century.—The Bayeaux Tapestry.—Arras Carpets.—Inventory of the Tapestries of Charles V.; enormous Value of these Embroidered Hangings.—Manufactory at Fontainebleau under Francis I.—The Manufacture of the Hôpital de la Trinité, at Paris.—The Tapestry Workers, Dubourg and Laurent, in the reign of Henry IV.—Factories of Savonnerie and Gobelins.



IF there is an art which bears brilliant testimony to the industry and ingenuity of mankind in the remotest ages, undoubtedly it is that of weaving or of embroidering tapestry; for, however far back we trace the annals of nations, we find this art flourishing and producing marvels of workmanship.

Let us first open the Bible, one of the oldest of historical documents; we read therein of woven fabrics, not only worked on the loom, but also made by hand, that is, richly embroidered in needlework on linen or canvas. These magnificent fabrics, which were laboriously and minutely executed, represented all kinds of designs in relief and in colours; they were used as decorations for the holy temple, and as ornamental garments for the priests who performed the religious ceremonies. Indubitable proof of this is the description, in the book of Exodus, of the curtains surrounding the tabernacle. Some of these embroideries, in the manufacture of which gold and silver thread, combined with dyed wools and silk, was used, were named *opus plumarii* (work in imitation of birds' plumage); others—such, for example, as the veil of the Holy of Holies, which represented cherubim in the act of adoration—were called *opus artificis* (work of the artisan), because they were made by the weaver on the loom; and, with the aid of numerous shuttles, the woof of wools and silks of various hues was introduced.

In the traditions of Babylon we also find figured tapestry delineating the mysteries of religion, and handing down to us the recollection of historical incidents. "The palace of the kings of Babylon," says Philostratus, in the "Life of Apollonius of Tyana," "was ornamented with tapestries in gold and silver tissue, which recorded the Grecian fables of Andromeda, of Orpheus,

&c." The Greek poet Apollonius of Rhodes, who wrote a century before our era, relates in his poem of "The Argonauts" that the women of Babylon excelled in the execution of these gorgeous textures. The famous tapestries which were sold in the time of Metellus Scipio for 800,000 sesterces (about £6,600), and a hundred years later were purchased for the exorbitant sum of two million sesterces (about £16,480) by Nero, to place on his festive couches, were of Babylonian workmanship.*

The custom of embroidering such scenes as combats and hunting incidents seems to be very ancient. According to Herodotus, certain races bordering on the Caspian Sea were accustomed to have figures of animals, flowers, and landscapes delineated on their garments. This custom is mentioned among the pagans by Philostratus, and among Christians by Clement of Alexandria. Pliny, the naturalist, who lived in the first century of our era, also alludes to it on several occasions in his works. Three hundred years later, Amasius, Bishop of Amasia, deplores the folly which "set a great value on this art of weaving, a vain and useless art, which by the combination of the warp and woof imitates painting." "When persons thus dressed appear in the street," adds the pious bishop, "the passers-by look at them as walking pictures, and the children point at them with their finger. We see lions, panthers, bears, rocks, woods, hunters; the religiously inclined have Christ, his disciples and his miracles, figured on their garments. Here we see the wedding of Cana, and the pitchers of water turned into wine; there we have the paralytic carrying his bed, or the sinner at the feet of Jesus, or Lazarus being raised from the dead."

We have only to look into the works of the writers of the time of Augustus to learn that the halls in the houses of the wealthy were always hung with tapestry; and that the tables, or rather the beds upon which the guests were seated, were covered with carpets.

The Attalian carpets, which were thus named because they came from the inheritance bequeathed to the Roman people by Attalus, King of Pergamos, were indescribably magnificent. Cicero, who was a connoisseur in such matters, speaks of them with enthusiasm. Under Theodosius I., a contemporary historian shows us "the youth of Rome engaged in making tapestry-work."

In the early period of French history, this ingenious and delicate work would seem to have been mainly carried on by women, and especially by those of the highest rank. At any rate, it is a fact that rich tapestries were in common use, both in private houses and for ecclesiastical purposes, as early as the sixth century; for Gregory of Tours does not fail to tell us of the

* For an account of all that is known of the textile arts of Babylon and Nineveh, see Perrot and Chipiez's "History of Art in Chaldea and Assyria," vol. ii. page 363.—A.

embroidered hangings, and also of the tapestry, in most of the ceremonies which he describes. When King Clovis renounced paganism and asked to be baptised, "this intelligence was the greatest joy to the bishop; he orders the sacred fonts to be prepared; the streets overhung with painted cloths; the churches ornamented with hangings." When the abbey-church of St. Denis had to be consecrated, "its walls are covered with tapestry embroidered in gold and ornamented with pearls." These tapestries were for a long time preserved in the abbey treasury. Subsequently, this same treasury received, as a present from Queen Adelaide, the wife of Hugh Capet, "a chasuble, a valance, as also some hangings, worked by her own hand;" and Doublet, the historian of this ancient abbey, states that Queen Bertha (whom an old French proverb makes an indefatigable worker with her needle) embroidered on canvas a series of historical subjects, depicting the glorious deeds of the family.

Nevertheless, there is no written authority for asserting that in France the manufacture of tapestries and hangings worked on the loom can be traced beyond the ninth century; but at this period, and a little later, we find some documents which are as precise as they are curious, proving that this industry, the principal object of which, at that period, was the ornamentation of churches, had to a certain extent obtained a footing, and was flourishing in religious establishments. The ancient chronicles of Auxerre relate that St. Anthelm, the bishop of that city, who died in 828, caused to be made, under his own directions, numerous rich carpets for the choir of his church.

One hundred years later we find a regular manufactory established at the monastery of St. Florent, at Saumur. "In the time of the abbot Robert III.," says the historian of this monastery, "the vestry (*fabrique*) of the cloister was further enriched by magnificent paintings and pieces of sculpture, accompanied by legends in verse. The above-mentioned abbot, who was passionately devoted to similar works, sought for and purchased a considerable quantity of magnificent ornaments, such as large *dorserets** in wool, curtains, canopies, hangings, bench-covers, and other ornaments, embroidered with various devices. Among other objects he caused to be made two pieces of tapestry of large size and of admirable quality, representing elephants; and these two pieces were joined together with a rare kind of silk, by hired workers in tapestry. He also ordered two *dorserets* in wool to be manufactured. It happened that, during the time one of these was being completed, the above-mentioned abbot went to France. The ecclesiastic left in charge took advantage of his absence to forbid the artisans to work the woof according to the customary method. 'Well,' said they, 'in the absence of our good abbot we will not discontinue our employment; but as you thwart us we shall make quite a different kind of fabric.'" And this now admits of proof. They made

* *Dorserets,* covers to backs of chairs, beds, &c.

several square carpets, representing silver lions upon a field of *gules* (red), with a white border covered with scarlet animals and birds. This unique piece of workmanship was looked upon as a perfect specimen of this kind of fabric until the time of the abbot William, when it was considered the most remarkable piece of tapestry belonging to the monastery. In fact, on the occasions of great solemnities the abbot had the elephant tapestry displayed, and one of the priors showed that on which were the lions.

From the ninth or tenth century there was also a manufactory at Poitiers; and its fabrics, on which figure kings, emperors, and saints, were of European celebrity, as appears to be attested by a remarkable correspondence which took place, in 1025, between an Italian bishop, named Léon, and William IV., Count of Poitou. To understand this correspondence rightly, it must be borne in mind that at the time Poitou was as famous for its mules as for tapestry. In one of his letters, the bishop begs the count to send him a mule and a piece of tapestry, both equally marvellous (*mirabiles*), and for which he has been asking six years. He promises to pay whatever they may cost. The count, who must have had a facetious disposition, replied, "I cannot, at present, send you what you ask, because for a mule to merit the epithet of marvellous, he would require to have horns, and three tails, or five legs—and this I should not be able to find in our country. I shall therefore content myself with sending you one of the best I can procure. As to the tapestry, I have forgotten what size you want. Let me have these particulars again, and it will then soon be sent to you."

But this costly industry was not limited to the French provinces. In the "Chronique des Ducs de Normandie," written by Dudon, in the eleventh century, it is stated that the English were clever workers in this art; and when designating some magnificent embroidery, or rich tapestry, it was described as of English work (*opus Anglicanum*). Moreover, the same chronicle relates that the wife of Richard I., the Duchess Gonnor, assisted by her embroiderers, made hangings of linen and of silk, embellished with images and figures representing the Virgin Mary and the Saints, to decorate the church of Notre-Dame, Rouen.

The East, also, which from the earliest times had been renowned for the art of producing beautiful embroidered fabrics, became still more famous during the Middle Ages for those of wool and silk, embroidered with silver and gold. It yielded rich stuffs covered all over with emblazonments and with figures of animals, and probably also embroidered in open-work: these fabrics were called *étoffes sculptées*, or *pleines d'yeux*.

The librarian Anastasius, in his book the "Liber Pontificalis," which undoubtedly was written before the eleventh century, gives, when describing church decorations, some curious and circumstantial details regarding the

subject we are now discussing. According to him, as early as the time of Charlemagne (eighth century), Pope Leo III. "had a veil made of purple worked in gold, on which was the history of the Nativity and of Simon,



Fig. 27.—A piece of the Bayeaux Tapestry, representing the construction of Boats for William (with Border).

having in the centre the Annunciation of the Virgin." This was to ornament the principal altar of the Holy Mother of God, at Rome. He also ordered for the altar of the church of St. Lawrence, "a veil of silk worked in gold, having on it the histories of the Passion of our Saviour and of the Resurrec-

tion." He placed on the altar of St. Peter's "a veil of purple of a remarkable size, worked in gold and ornamented with precious stones; on one side was seen our Saviour giving St. Peter the power to bind and to loose, on the other the Passion of St. Peter and St. Paul.

It was only in the twelfth century, after the crusades had enabled Western nations to admire and to appropriate to themselves luxuries quite new to them, that the custom of using tapestry, while becoming far more general in churches, found its way also into private dwellings. If, in the cloisters, the



Fig. 28.—A portion of the Bayeaux Tapestry, representing two mounted men of Duke William's army armed from head to foot, and in the act of fighting.

monks, in order to find employment, lavished their utmost care on the weaving of wool and of silk, there was the more reason why this occupation should prove pleasing to the noble *châtelaines* who were confined to their feudal castles. It was then that, surrounded by their tire-women as Roman matrons were surrounded by their slaves, that these fair dames, while listening to the reading of tales of chivalry or inspired by a profound faith, gave themselves to the task of reproducing with the needle either the pious legends of the saints or the glorious exploits of warriors.

Among the finest specimens of this kind is the famous Bayeux Tapestry, called "*de la Reine Mathilde*" (of the wife of William the Conqueror). This work represents the conquest of England by the Normans. If we are to accept the tradition to which it owes its name, it must date from the last half of the eleventh century.

But in these days we may be permitted to doubt whether this embroidery be as old as was at one time supposed. Although we first find it alluded to in an inventory (prepared in 1476) of the treasury of Bayeux Cathedral, we may venture with some confidence to believe that it was made in the twelfth century by Englishwomen, who at that time were particularly famous for their needlework; an opinion confirmed by more than one author contemporaneous with William and Matilda.

This tapestry is 19 inches in height by nearly 212 feet in length. It is a piece of brown linen, on which are embroidered with the needle, in wool of different colours (and these seem to have lost none of their early freshness), a series of seventy-two groups or subjects, embracing the whole history of the Conquest, with legends in Latin interspersed with Saxon, as related by the chroniclers of the period (Figs. 27 and 28).

At the first glance it may seem to be but a rudely executed grouping of figures and animals; nevertheless there is character throughout, and the original outline, discoverable beneath the intersections of the wool, is not wanting in a certain accuracy. The double border is like those of paintings in manuscripts of the Middle Ages. If, in the failure of direct proof, we determine not to deprive this laborious piece of work of its traditional antiquity, it may with some probability be attributed to a female embroiderer of Queen Matilda, named Leviet, whose skill has rescued her name from oblivion. It may also be well to observe that at the time of its first mention in history, this tapestry belonged to the very church in which Matilda desired to be buried.

We have already seen (in the chapter on Furniture) that towards the twelfth and thirteenth centuries, under the influence of Eastern habits and customs, the practice of sitting on carpets was established at the courts of our kings. From this date rich tapestries were frequently used for making tents for campaigning or for hunting. They were displayed on festive occasions—as, for instance, when princes were entering a town, at tournaments, on the walls of banquetting rooms, and even on the back of the knight's charger.

In the fourteenth century the manufactories of Flanders, which where of considerable reputation even about the twelfth century, made great advance, and the success of the Arras tapestries became so general that the most handsome hangings were called Arras tapestry, although the greater part of



the whole history of the



THE ADORATION OF THE MAGI.

Tapestry of Berne of the fifteenth Century

Communicated by M Achille Jubinal

them did not come from that city. It may here be noticed that the term *Arrazi* is, in Italy, still synonymous with valuable tapestry (Fig 29).

These fabrics were generally worked in wool, and sometimes in flax and linen; but at the same period Florence and Venice, which had imported this industry from the East, wove tapestries wherein gold and silk were blended.

An inventory, dated 21st January, 1379, contained in a manuscript now in the National Library, in which are enumerated "all the jewels in gold and silver, all the rooms with embroidery and tapestries belonging to Charles V.,"



Fig. 29.—Marriage of Louis XII. and Anne of Brittany. Tapestry in wool and silk, with a mixture of gold and silver thread. Made in Flanders the end of the Fifteenth Century. (Lent by M. Achille Jubinal.)

gives us an idea not only of the multiplicity of hangings and tapestries that appertained to royalty, especially at the Hôtel Saint-Pol, but it also shows us the variety of subjects therein represented. A few of these pieces of tapestry are still preserved, but among some which have been destroyed or lost we may mention those representing the Passion of our Saviour, the Life of St. Denis, the Life of St. Theseus, and one entitled Goodness and Beauty; all these were of large dimensions. Then again, the tapestry of the Seven Mortal Sins, two pieces of the Nine Bold Knights, that of the ladies hunting

and flying (*qui volent*), in other words, hawking; that of the Wild Men; two of Godfrey de Bouillon; a white tapestry for a chapel, in the centre of which was seen "a compass with a rose," emblazoned with the arms of France and of Dauphiny—this was three yards square; one large handsome piece of tapestry, "the king has bought, which is worked with gold, representing the Seven Sciences and St. Augustin;" the tapestry of Judith (the queen who subsequently appears on playing-cards); a large piece of Arras cloth, representing the Battles of Judas Maccabæus and Antiochus; another of "the Battle of the Duke of Aquitaine and of Florence;" a piece of tapestry "whereon are worked the twelve months of the year;" another of "the Fountain of Jouvent" (Jouvence), a large piece of tapestry "covered with azure fleurs-de-lys, which said fleurs-de-lys are mingled with other small yellow fleurs-de-lys, having in the centre a lion, and at the four corners beasts holding banners, &c.—in fact, the list is endless. We must still, however, add to these figured tapestries those with armorial bearings, made for the most part with "Arras thread," and bearing the arms of France and Behaigne (the latter being those of the queen, daughter of the King of Bohemia). There was also a piece of tapestry "worked with towers, fallow bucks and does, to put over the king's boat." The tapestry called *velus*, or velvet, which now we call *moquettes*, was as commonly seen as any other kind. There were also to be noticed the *Salles de Angleterre*, or the tapestries from that country, which, as we have said, had previously acquired a great celebrity in that art. Among these one was "*ynde* (blue), with trees and wild men, with wild animals, and castles;" others were vermilion, embroidered with azure, having vignette borders, and in the centre lions, eagles, and leopards.

In addition to these, Charles V. possessed at his castle of Melun many "silken fabrics and tapestries." At the Louvre one could but admire, among other magnificent pieces of tapestry, "a very lovely green room, ornamented with silk covered with leaves; and representing in the centre a lion, which two queens were in the act of crowning, and a fountain wherein swans were disporting themselves."

The luxury of tapestry was general among the higher classes. An expensive taste it was; because not only does an examination of these marvellous works show us that they could have been purchased only at a very high price, but in old documents we find more than one certain confirmation of this fact. For example, Amaury de Goire, a worker in tapestry, received in 1348, from the Duke of Normandy and Guienne, 492 livres, 3 sous, 9 deniers, for "a woollen cloth," on which were represented scenes from the Old and New Testaments. In 1368, Huchon Barthélmy, money-changer, received 900 golden francs for a piece of "worked tapestry, representing La Quête de

St. Graal" (the search for the blood of Christ); and in 1391, the tapestry

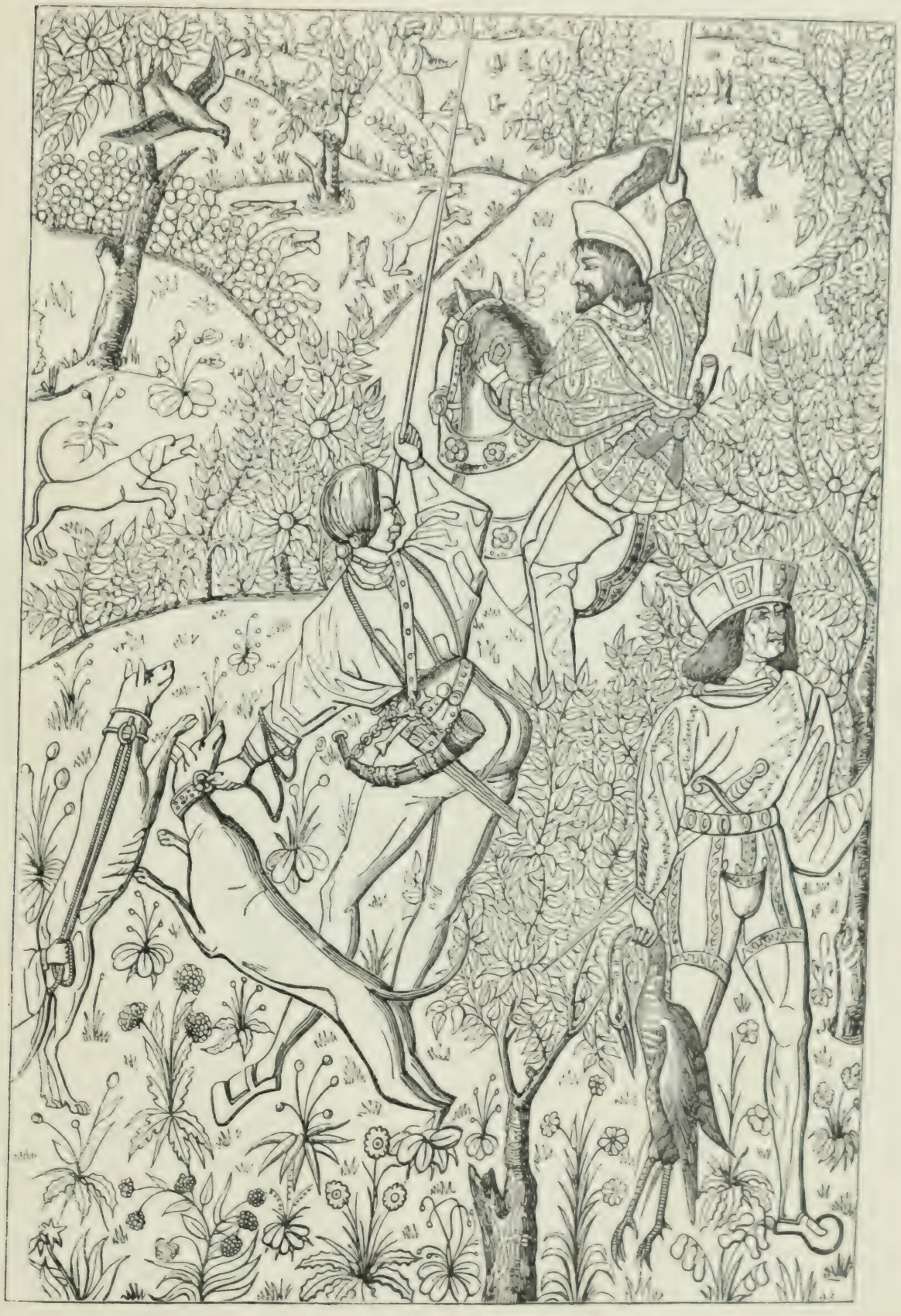


Fig. 30.—Tapestry representing a Hunting Scene, from the Château d'Effiat.
(In the possession of M. Achille Jubinal.)

exhibiting the history of Theseus, to which we have already alluded, was

purchased by Charles V. for 1,200 livres; all these sums, considering the period, were enormous.

The sixteenth century, remarkable for the progress and the excellence to which the arts of every kind had attained, gave a renewed impulse to that of tapestry. A manufactory was established by Francis I. at Fontainebleau, where the tapestry was woven in one entire piece instead of being made up, as had been the practice, of separate pieces matched and sewn together. In this new fabric gold and silver threads were mixed with silk and wool.

When Francis sent for the Primate from Italy, he commissioned him to procure designs for several pieces of tapestry, to be made in the workshops of



Fig. 31.—The Weaver. Drawn and Engraved by J. Amman.

Fontainebleau. But, while liberally rewarding the Italian or Flemish artists and artisans collected in the dependencies of his château, the King still continued to employ Parisian tapestry-workers; proof of which is to be found in a receipt of the sieurs Miolard and Pasquier, who give an acknowledgment of having been paid 410 *livres tournois*, "to begin the purchase of materials and other requisites for a piece of silk tapestry, which the said seigneur had ordered them to make for his coronation, according to the patterns which the said seigneur has had prepared for this purpose, and on which must be represented a Leda, with certain nymphs, satyrs, &c."







PLAN OF PARIS IN THE FIFTEENTH CENTURY

Remnant of Tapestry (communicated by M. Achille Jubinal)

Henry II. did even more than maintain the establishment at Fontainebleau; in addition he instituted, in compliance with the request of the guardians of the Hôpital de la Trinité, a manufactory of tapestry in Paris, in which the children belonging to the hospital were employed in dyeing wool and silk, and in weaving them in the loom with a high and low warp.

The new manufactory, whether on account of the excellence of its productions or from influential patronage, obtained so many privileges that the public peace was on several occasions seriously disturbed by the jealousy of the guild of tapestry-workers, an ancient and numerous corporation still possessing great authority and influence.

The manufactory of the Hôpital de la Trinité continued to flourish during the reign of Henry III.; and Sauval, in his "Histoire des Antiquités de Paris," informs us that in the following reign it reached its highest point of



Fig. 32.—Banner of the Tapestry Workers of Lyons.

prosperity. In 1594, Dubourg made in these workshops, from the designs of Lerembert, the beautiful tapestries which, to a date very near our own, decorated the Church of Saint-Merry. Henry IV., says Sauval, hearing this work much spoken of desired to see it, and was so pleased therewith that he resolved to restore the manufactories in Paris, "which the disorder of preceding reigns had abolished." He therefore established Laurent, a celebrated tapestry-worker, in the *maison professe* of the Jesuits, which had remained closed since the trial of Jean Chastel. He allowed one crown a day and one hundred francs a year as wages to this skilful artist; his apprentices receiving ten sous a day, and his fellow-workmen twenty-five, thirty, and even forty sous, according to their skill. At a later period Dubourg and Laurent, who had entered into partnership, were both installed in the galleries of the Louvre. Henry IV., following the example of Francis I., brought from Italy skilled workers in gold and in silk. These

he lodged in the Hôtel de la Maque, Rue de la Tisseranderie; the special works they made were hangings in fine cloth of gold and silver *(frisé)*. Subsequently to the sixteenth century, the tapestries fabricated at the manufactories of the Savonnerie, the Gobelins, and at Beauvais, &c., although more perfect as regards weaving, and therefore presenting greater regularity of design and a better comprehension of colour and perspective, unfortunately lost the original simplicity which characterised them in olden times.



CERAMIC ART.

Pottery Workshops in the Gallo-Romano Period.—Ceramic Art disappears for several Centuries in Gaul: is again found in the Tenth and Eleventh Centuries.—Probable Influence of Arabian Art in Spain.—Origin of Majolica.—Luca della Robbia and his successors.—Enamelled Tiles in France, dating from the Twelfth Century.—The Italian Manufactories of Faenza, Rimini, Pesaro, &c.—Beauvais Pottery.—Invention and Works of Bernard Palissy; his History; his *Chefs-d'œuvre.*—The *Faïence* of Thouars, called "Henri II."



E can assuredly say, with M. Jacquemart, that "the history of the ceramic art of the Middle Ages is shrouded by a veil which probably will always remain impenetrable. Notwithstanding the constant investigations of local societies, and the numerous documents that have been brought to light, nothing has transpired to remove the doubts of the archæologist regarding the places where the manufacture of pottery had its birth among us."

Nevertheless, it is certain that in the Gallo-Romano period, Gaul possessed numerous and considerable pottery workshops, where vessels and vases of all kinds were produced. Maintaining the ancient forms and processes of manufacture, these factories continued to furnish till about the sixth century amphoræ, basins, cups on stems, dishes, plates, and bottles. They were made, with the aid of the potter's wheel, of grey, yellow, or brown clay. Some of the finest quality were covered with a brilliant varnish, resembling red sealing-wax both in colour and appearance; and these articles were often ornamented with much care and delicacy. Yet it is also evident that this industry nearly disappeared about the period of the invasions and wars amidst the tumult of which French monarchy had its birth; and there remained but the simple art that provided for ordinary domestic requirements.

It must be remembered, however, that the ceramic art which had flourished in the West only migrated, instead of becoming extinct, and found, like so many other arts, a new home in Byzantium. Whatever may be the reason, ceramic art disappeared from the soil of France during a long period: and it is still a question as to what was the real cause of its revival.

The ceramic art, which perhaps we somewhat wrongly style modern, is characterised by the use of enamel, or overlaying articles with a metallic glaze, which the fire of the oven vitrifies.

In searching the tombs in the ancient abbey of Jumièges (in Normandy), which date from the year 1120, there have been found fragments of pottery of a fine but porous clay, covered with a glazing somewhat similar to that now used; and we read in a chronicle of the ancient province of Alsace, that in the year 1283 "died a potter of Schelestadt, who was the first to cover earthen vessels with glass."

But we also know that at the time when these isolated attempts were being carried out in France, the Persians and Armenians had long before



Fig. 33.—Vases of ancient shape, represented in the decorative sculpture of the Church of St. Benoît, Paris. (Twelfth Century.)

discovered the art of making magnificent enamelled ware for covering the exterior of their monuments; and that the Arabs settled in Spain produced wonderful examples of painted and enamelled earthenware, with which they decorated and furnished those palaces whose grand ruins are still to us like the fairy visions of a dream or of enchantment. The vases of the Alhambra, types of an art as original as it was singularly ingenious, claim, and doubtless will always claim, the admiration of minds that can appreciate the beautiful in whatever form it may present itself.*

And now, are we to suppose that the intercourse between nations and the transactions of commerce must necessarily have made Western Europe

* The ancient pottery of Egypt, and especially that known under the inexact title of "Egyptian porcelain," is a sandy frit glazed with soda and flint. The glaze is so good that it will stand the heat of a porcelain oven.—A.

acquainted with the enamelled dishes of Asia, and with the *chefs-d'œuvre* of the African race in Spain? Or, on the other hand, shall we say that it was by a spontaneous effort of invention that our forefathers opened up the road to a new domain of art? In the one case we have the opinion, deservedly respected, of Scaliger, who affirms the fact, apparently very significant, that during the Middle Ages there existed in the Balearic Islands manufactories of pottery of Arab origin; our learned author even adds, that in accordance with the most probable etymology, the name of *Majolica*, which was first given to Italian ware (the earliest in the European revival of the ceramic art), was derived from *Majorca*, the largest, as we know, of the Balearic Islands, in which locality the principal manufactory of these pottery wares was situated. But, on the other hand, a comparative examination of Arab and Italian wares excludes all idea not only of affiliation, but even of imitation or reminiscence between them.

In the face of such contradictory coincidence, if we may say so, it would



Fig. 34.—Vases of ancient form, represented in the decorative sculptures of the Church of St. Benoît, Paris. (Twelfth Century.)

be as difficult as it would be rash to pronounce an opinion; we consider it better, while disregarding problematical indications, to boldly face a train of facts now determined by historical proof.

"At the commencement of the fifteenth century"—we cannot do better than borrow from M. Jacquemart a passage which he himself took from the Italian work by Passeri, on Majolica (Pesaro, 1838, in 8vo)—"Luca della Robbia, the son of Simone di Marro, apprenticed himself to a Florentine goldsmith, Leonardo, the son of Giovanni; but disliking the confinement of a laboratory, he soon became a pupil of the sculptor Lorenzo Ghiberti, who made the gates of the Baptistery at Florence. His rapid progress under so able a master placed him, when he could not have been more than fifteen years old, in a position to undertake the task of ornamenting a chapel for Sigismond Malatesta, at Rimini. Two years later, Piero di Medici, who was having an organ erected in Santa-Maria dei Fiori, at Florence, directed Luca to execute some marble sculptures in that church. The fame which he

gained by these works drew everybody's attention to the young sculptor. Orders reached him in such numbers that he clearly saw the impossibility of executing them in marble or in bronze; added to this, he bore with impatience the restraint imposed by working with such rigid materials, of which the laborious handling trammelled the flights of his imagination. Soft and plastic clay was a material far better suited to his readiness of conception. At the same time, Luca dreamt of the future, and of glory; and thus having in view the object of executing works which, though less perishable, might be rapidly executed, he devoted all his efforts to discover a coating which would give to clay the polish and the hardness of marble. After many trials, a varnish made of tin (*étain*), which was white, opaque, and of a resisting nature, furnished him with the result he hoped for. The art of producing fine earthenware was discovered, which first received the name of vitrified clay (*terra invetriata*).

"Luca's enamel was a most perfect white; he first used it alone for figures in semi-relief, which were raised on a blue background. At a later period he ventured to colour his figures. Piero di Medici was one of the first who encouraged this kind of work for the decoration of palaces. The fame of the novel art spread with rapidity; all the churches were anxious to possess some specimen of the master, so that Luca was soon compelled to associate with himself his two brothers Ottaviano and Agostino, in order to keep pace with the requirements of the public. He endeavoured, nevertheless, to extend the application of his discovery by painting flowers and groups of figures on a smooth surface; but in the year 1430 death cut short his remarkable career, and stayed, in the hands of the inventor, the progress of enamelled pottery (Fig. 35).

"The family of Luca, however, made public the secret of his discovery. His two nephews, Luca and Andrea, produced some figures and designs of singular merit in terra-cotta. Luca ornamented the floor of the Loggia of Raphael. Girolamo, a relative of Luca, came to France, where he decorated the château of Madrid, in the neighbourhood of Paris. Two females, Lisabetta and Speranza, added to the renown of the family Della Robbia."

Such is the history of the revival, or rather of the creation, of ceramic art in Italy, as briefly recorded by a man thoroughly acquainted with the subject. An ancient author, and, moreover, a competent writer, instances some monuments of an earlier date; among others a tomb at Bologna, in which were tiles covered with a green and yellow varnish, and plaques of the same kind inserted in the façades or porticoes of the churches of Pesaro and the abbey of Pomposa. But to the honour of Luca della Robbia it may be remarked, that these specimens of an earlier industry differed essentially from his productions; because the glazing that covered them, the basis of which

was lead, was so transparent, that through it could be seen either the clay or the colours underneath; whereas the enamel discovered by Luca, the basis of which was tin, had, on the contrary, for its essential character an opacity which may be termed intense. Let us observe, moreover, that in order to embellish his productions with paintings, Luca was accustomed to apply colours to the first and general coating, which became fixed by a subsequent process of baking.



Fig. 35.—Enamelled Plaque, by Luca della Robbia.

It is by recognising the distinction we have just laid down between these two processes, that the productions of Italian ceramic art are ordinarily classified: the *demi-majolica*, with transparent glaze, somewhat like the Spanish-Arabian pottery, and also, perhaps, like Asiatic tiles; then the *majolica*, by which we understand fine earthenware, where the clay is covered with a coating of opaque varnish, distinguishing the invention due to Luca della Robbia.

Having given priority of invention to Luca della Robbia, it is as well,

nevertheless, here to state that from the eleventh and twelfth centuries there existed in France a kind of ceramic art employed especially in the manufacture of varnished pottery-tiles. Many, of baked clay, have been found with drawings and designs in black or brown on a white or yellow ground (Plate IV.). At a later period these tiles, of which we see such brilliant specimens in the small pictures in manuscripts, especially in those of the fourteenth and fifteenth centuries, were embellished with designs, emblems, armorial bearings, and scrolls. As already stated, in the passage from the author whom we have taken as our guide, the impulse which Luca della Robbia gave to ceramic art extended itself with rapidity in every direction; and if any other reason were wanting, beyond the intrinsic value of this art, to account for its development, we should say that the circumstances in the midst of which Luca made his discovery were eminently favourable to its advancement.

Luxurious display was, at that time, prominent among the upper classes. In our chapter on furniture, we saw to what a pitch of splendid profusion kings, princes, and nobles carried the mania for displaying their wealth. We particularly pointed out the sideboards covered with plate and all kinds of objects which were only placed there to dazzle the eyes. The custom of these displays having been introduced, it could nevertheless be only indulged in by those in possession of considerable fortunes, and therefore it will be readily understood how quickly fashion affected the productions of ceramic art; which, in addition to being recognised as works of art, were singularly well suited, both in character and by their comparative cheapness, to the spirit of ostentation which had taken possession of people of inferior rank. It was sufficient that some piece of majolica should have found a place on the sideboard of a prince amidst the gold and the silver which hitherto had alone enjoyed this privilege, for the lower ranks of the *bourgeoisie* and the *tiers-état* to adopt the fashion, in their dining-rooms, of decorating them either with majolica alone, or associated with plate.

And admitting this fact, that the productions of ceramic art were thus allowed to find admittance, and, as it were, in some measure an equally distinguished position, amidst plate and objects of precious metals, it resulted that this new industry, supported by the best artists, soon became remarkable for works which were at once beautiful and original.

As something new in history, we find simple pieces of pottery—to give them their generic name—passing as valuable offerings among the great, and employed on very many occasions to denote ardent admiration in the world of courtly gallantry. It is thus we have handed down to us, principally on cups by renowned masters, portraits of the beauties who in those times adorned the ranks of the nobility: the Dianas, the Francescas, the

Lucias, the Proserpines, whom their admirers caused to be portrayed in order to offer them their own likenesses.

It was at Florence, about the year 1410, that Luca della Robbia first introduced his invention; but as soon as the process became known, the greater part of the towns of Italy, especially those of Tuscany, established manufactories, among which a remarkable rivalry soon arose: Pesaro, Gubbio, Urbino, Faenza, Rimini, Bologna, Ravenna, Ferrara, Citta-Castellana, Bassano, Venice, emulated each other, and almost all succeeded in giving, as it were, an individual character to their productions.

Pesaro—the place where the earliest workshops of ornamental pottery in Italy were seated, and the processes of which (derived from Luca della Robbia) seem to have blended with the ancient Spanish—presents to us a design of a rather harsh and stiff character. "The outlines of figures," adds M. Jacquemart, "are drawn in manganese black, the flesh is the colour of the enamel, and the drapery alone is of uniform tint."

It was at Pesaro that the celebrated Lanfranco flourished. The ceramic museum of Sèvres has two of his pieces: it was he who invented the method of applying gold to earthenware, at a time when the early processes of ornamenting this manufacture had ceased to be employed, and had given place to delicate paintings, which, although no longer executed by the most renowned artists of Italy, were nevertheless the work of intelligent pupils who had received the benefit of their teaching and example.

The manufactory at Gubbio had for its founder Giorgio Andreoli, who, both as a sculptor and an artist in majolica, executed works as remarkable in form as in effect. "The palette of mineral colours adopted by Andreoli was the most perfect of the period; and coppery yellows, ruby reds, are frequently used in his works." There are still extant some works signed by this *master* (a title officially conferred on him by a patent of nobility); one is a slab in the Sèvres collection, and another a tablet representing the Holy Family.

Urbino—of which the dukes, especially Guidobaldo II., signalised themselves as the most zealous patrons of ceramic art—became famous through the works of Francesco Xanto, who executed historical subjects on enamelled clay. Xanto had as a successor Orazio Fontana, who has been named "the Raphael of majolica," and who produced among other magnificent objects some vases which, when subsequently seen by Christina of Sweden, so impressed her by their beauty that she offered to exchange for them silver vases of equal size.

It was at the manufactory of Deruta that imaginative subjects on majolica were first introduced; Bassano was famous for its landscapes with ruins; Venice became celebrated for delicate ware with *repoussé* reliefs; Faenza is still proud of her Guido Salvaggio; Florence of her Flaminio Fontana, &c.

Majolica attained to its highest point of brilliancy under the Duke of Urbino, already named, Guidobaldo II., who was ever ready to make any sacrifice in order that this art might be introduced into the manufactories under his patronage. He even obtained from Raphael and Giulio Romano some original drawings to serve as examples; and this feeling having once been inculcated, we soon find artists of renown, such as Batista Franco and Raphael del Colle, tendering their services for the ornamentation of majolica. Thus the productions of this period are distinguishable among all others for harmony of composition and accurate drawing, qualities which render them



Fig. 36.—Cup, Italian Ware. In the Collection of Baron Alph. de Rothschild. Taken from MM. Carle Delange and C. Borneman's work.

specially noteworthy (Fig. 36). Then, almost immediately, followed the decline. While flourishing more and more until the middle of the sixteenth century, the art of making majolica had fallen at its end into a kind of degenerate industry, swayed by the caprice of fashion, and thereby reduced to mannerism.

Nearly at the commencement of the renovation of ceramic art, Italian artisans had established themselves in various places, which then became so many artistic centres. Eastern Europe had for its earliest instructors three brothers, Giovanni, Tiseo, and Lazio, who settled at Corfu. Flanders was

indebted for the knowledge of these processes to Guido of Savino, who took up his abode at Antwerp. And about the year 1520 we find a manufactory at Nuremburg, of which the ware, though materially differing in character from Italian majolica, may still very probably have been derived from Italy.

About the year 1510, in a small village in Périgord, was born Bernard Palissy. He first learnt the trade of a glazier, or rather of a glass-fitter and painter. Owing to various circumstances, the trade of glazier proving unprofitable, he began the study of geometry, and soon obtained credit in the part of the country wherein he dwelt as "a clever draughtsman of plans." Such comparatively mechanical labour as this could not long suffice for the active vigour of a mind thirsting after progress and discovery, and the glazier-surveyor (who was now a married man with a family) was in straitened circumstances, and was obliged to find some means of avoiding

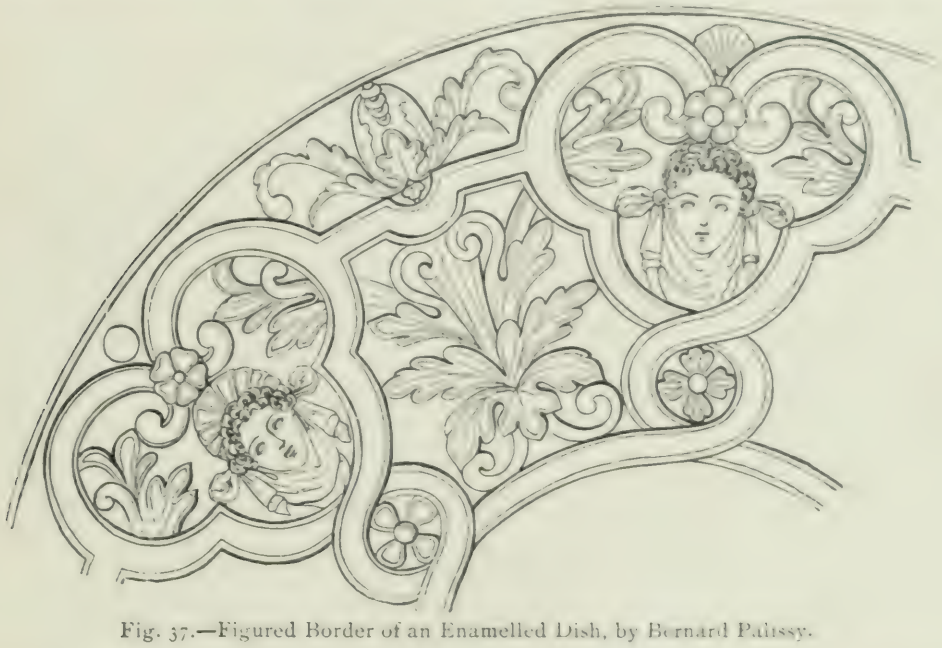


Fig. 37.—Figured Border of an Enamelled Dish, by Bernard Palissy.

actual want. We must refer to what he himself says more than a quarter of a century later, when success had completely crowned his efforts, for his recollections of his early and hazardous experiments in a new channel.

The source of Palissy's first inspiration as a potter has been much disputed, but the point is not important. We find him building an oven in his own house, taking into his service a working potter, to whom, on one occasion, when he has no money for the payment of wages, he is obliged to give his own clothes; again we find him turning, single-handed, a mill for grinding his materials which ordinarily required "two powerful men" to work it; then again, wounding his hands in repairing the oven that the fire cracked, and the bricks and mortar of which had become "liquified and vitrified;" so that he is obliged for several days "to eat his soup with his fingers tied up in rags;" pushing the conscientiousness and zeal of an

experimentalist so far as to fall down in a state of insensibility on finding that the whole contents of an oven, on which he had been relying, proved to have numerous defects. In despite of his poverty we see him destroying pieces of work that he considered were not quite perfect, though a fair price was offered him for them, merely because "they might bring discredit on him and loss of reputation;" and finally, we see him breaking up and putting into the fire, for want of other fuel, the flooring of his house and the furniture of his humble abode.

The magnificent discovery was the labour of not less than fifteen years.

"To console me," relates Palissy, "even those from whom I had a right to expect help laughed at me" (he here alludes to his family—his wife and children—who had not the same unbounded faith as himself in the ultimate success of his labours); "they paraded the town exclaiming that I was burning the woodwork of my house; thus was my credit injured, and I was looked upon as a fool. Others said I was attempting to make base coin. I went about quite humiliated, ashamed of myself. I owed money in several quarters, and generally had two children out at nurse, and not able to pay the cost. All ridiculed me, saying, 'He deserves to starve, because he has given up his trade.'

"Struggling on in this way, at the end of ten years I became so thin that my legs and arms had no roundness of shape left about them; my legs were all of a size (*toutes d'une venue*), so that as soon as I began to walk the garters with which I fastened my stockings used at once to slip down, stockings and all, on to my heels. For many years, having nothing wherewith to cover my ovens, I was exposed all night long to the winds and the rains, without receiving any help or consolation, except from the screech-owls hooting on one side and the dogs howling on the other. Sometimes I found myself, with all my garments wet through from the rain, going to bed at midnight or at dawn of day; and when proceeding in this condition to bed, I went reeling along without a light, and stumbling from side to side like a man drunk with wine; I was overcome by previous sorrow, the more so because after long-continued work I saw my labour lost. And on entering my chamber I found a fresh persecution awaiting me—the complaints of my wife—worse than the first, and which now makes me wonder how it was I did not die of grief. I have been in such anguish that many and many a time I fancied I was at death's door."

At last, despite all these obstacles, disappointments, physical and mental suffering, the determined experimentalist succeeded in his anticipations, and gave to the world those works he called *rustics*, and which were so original and so beautiful that they had but to be seen in order to invite attention, and to gain for him all the praise, as well as the profit, he deserved.





BIBERON OF HENRI II WARE

in Ornan Fayence. Fourtales' Collection. Now in the possession of J. Pierpont Morgan, Esq.

It was at Saintes that Palissy underwent his rude apprenticeship. A short time after he had attained these definite results, religious questions having caused some disturbances in Saintonge, the Constable de Montmorency, who had been sent to suppress the Huguenot rising, had an opportunity of seeing Palissy's works: he requested that he should be presented to him, and at once declared himself his friendly protector. And we must take this word protector in its widest sense, for the potter, who had zealously embraced the doctrines of the Reformation, and who subsequently preferred to be imprisoned for life rather than abjure his faith (if he did not die in the Bastille, at least he was imprisoned there at the time of the Massacre of St. Bartholomew), indeed required protection, as much for the exercise of liberty of conscience as for carrying on his artistic labours. After



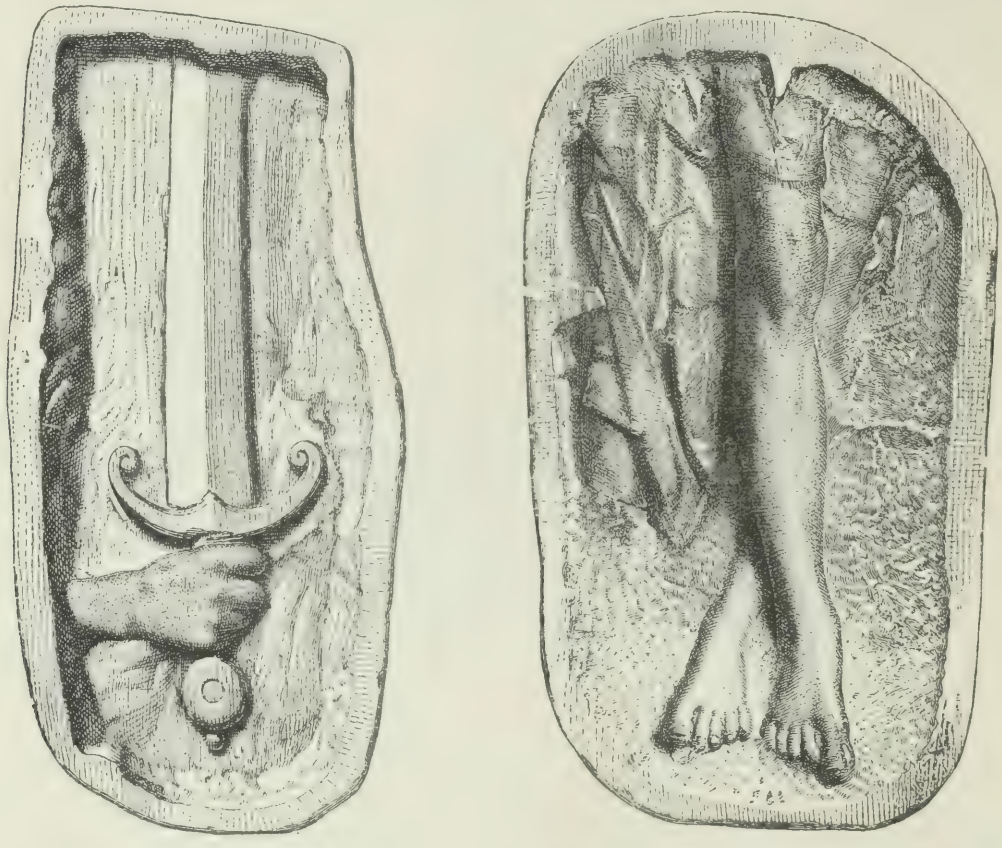
Fig. 38.—Ornamentation on Pottery by Bernard Palissy.

Montmorency had commissioned him to execute some considerable works, which also gained him the patronage of several important personages, he obtained for him the favour of royalty. Palissy was summoned to Paris, and received the title of "inventeur des rustiques figulines du roi et de la reine-mère"—Henri II. and Catherine de Médicis. He was lodged in the Tuileries, and was not long there before he became renowned, not only for his ceramic productions, but also for his scientific knowledge.

In some building operations undertaken a few years ago at the Tuileries, the workshop of Bernard Palissy was discovered, being recognised by fragments and various pieces of enamelled pottery with figures in relievo. Among these was found a large fragment of the dish known as the Baptismal Dish, on account of the subject represented thereon. In July, 1865, while excavating in the part of the palace where the "Salle des Etats"

has been built, the workmen discovered, below the level of the surface soil, two ovens for baking pottery, in a tolerably good state of preservation. One contained pieces of those muffles (*gazettes*) Palissy is said to have invented, which were employed in baking delicate pieces of work—imprints of various kinds of ornaments, and figures in alto-relievo. Two of these are described by Palissy himself in the "Devis d'une grotte pour la royne, mère du roy."

M. Jacquemart says of Palissy ware: "It is remarkable in more ways than one—for its white paste with a shade of yellowish grey, for its hardness, and its infusibility, equalling that of fine earthenware or pipeclay. These give it a special character that distinguishes it from Italian productions, the



Figs. 39 and 40.—Fragments of Figures of which the moulds have been found in one of Palissy's Ovens at the Tuileries.

clay of which is of a dirty and dusky red. The enamel has great brilliancy; it is hard, and is not unfrequently wavy (*tresaille*). The colours vary a little, but they are bright—pure yellow, yellow ochre, indigo blue, grey blue, emerald green produced from copper, yellow green, violet brown, and manganese violet. As for the white, it is somewhat dull, and cannot be compared with Luca della Robbia ware; wherefore the most persevering researches of Palissy, who invented all the processes which he employed in his work, aimed at the attainment of greater brilliancy. The under part of Palissy ware is never of a uniform tone of colour; it is spotted or tinted with blue, yellow, and violet brown.

"It would be exceedingly difficult, not to say impossible, to enumerate the various shapes he was able to give to his enamelled ware. Combining in himself all the artistic talent of his day, he was at the same time a skilful designer and an intelligent modeller; and thus he discovered a thousand resources for the display of elegance and richness; sometimes in the multiplicity of relievos and in the outline of his vases, sometimes in the mere



Fig. 41.—Goblet, by Bernard Palissy. [Museum of the Louvre.]

application of colour. In many of his productions, particularly dishes and bowls, natural objects are represented with astonishing truthfulness as to form and colour; nearly all these are modelled from nature, and grouped with perfect taste. From the lower surface, rippled by streams of water in which fish of the river Seine are swimming, coiled reptiles rise gracefully from among fossil shells (we must remember that Palissy was a

geologist), found in the tertiary strata of Paris; on the *marli* (the sloping edge of the dish), amidst delicate ferns arranged in masses, lizards, crayfish, and large-bodied frogs climb and jump (Fig. 42). The accuracy of their movements, the truth of tones produced by a limited variety of colours—all



Fig. 42.—Enamelled Dish, by Bernard Palissy. (Museum of the Louvre.)

indicate a close observer. We must not, however, form our opinion of Palissy from these *rustic* works alone, but also from his vases, where he introduced all the ornamental richness of those times, and on which he took a pleasure in developing all his fertility of composition and his knowledge as

a designer. On this point Palissy followed the same law to which all artists of the sixteenth century were subject—he was a worker in precious metals. By their graceful originality, their fringed (*frangés*) borders, their figured accessories, these vases put us in mind of metal. How could it have been otherwise? Was not Benvenuto Cellini at that time, we will not say the object of all imitations, for this would be an insult to the skilful artists of that period, but at all events the ideal towards which the inspirations of others were directed? As regards the human figure, Palissy's constant endeavour was to approach the Italian type; and as doubtless the school of Fontainebleau furnished him with most of his models, in the greater part of



Fig. 43.—Four-handle Water-jug.
German ware
of the Sixteenth Century.



Fig. 44.—Egg-shaped Coffee-pot.
German ware
of the Sixteenth Century.

his figures we trace that graceful *elongation* of form, that elegant simplicity, which fall into mannerism in the works of Jean Goujon (Figs. 43 and 44).

"Palissy did not limit himself to the production of small and moderate-sized vases for ornamenting sideboards, buffets, tables, and brackets; he raised pottery to the most gigantic proportions in his *rustiques figulines*, intended as ornaments for gardens, grottoes, fountains, and the halls of stately mansions. The castles of Nesle and of Chaulnes, of Reux and of Ecouen, and the garden of the Tuileries, contained some remarkable specimens. All have perished with the devastation of the buildings in which they stood; a single fragment of a capital, preserved in the Museum of Sèvres, proves the truthfulness of the writers of the sixteenth century regarding the monumental creations of the potter of Saintes.

"After the death of Palissy, in 1589, the art which he created declined rapidly, until soon it almost completely disappeared in France."

This latter remark has reference to the style which was peculiarly of Palissy's own invention, and not to the production of ceramic works generally; though the art failed not to give evidence of a certain vitality, it employed as guides or models the fanciful examples of Italian ware, in preference to the really masterly specimens of the French artist. Among the different centres of manufacture which, at that period, were deserving of notoriety, we must specially name Nevers, whence came numerous examples characterised by subjects taken from biblical narratives, as well as from Roman and contemporaneous times; Rouen, where the manufacture probably was not of an earlier date than the beginning of the seventeenth century, and which evidently had to provide its full supply of dishes for the table when, owing to the heavy expenses of war, the courtiers, following the example of Louis XIV., sent their plate to the mint, and "*se mirent en faïence*," "took to earthenware," as Saint-Simon says. Lastly, we have Montreuil-sur-Mer, which, if we are to credit the specimens collected in the district by M. Boucher de Perthes, one of our most learned antiquarians, possessed a manufactory that produced some remarkable "open-work" vases.

Let us also mention the Dutch pottery, called *Delft*, which, in the beginning of the seventeenth century, began to find a place on all side-boards and dressers. According to M. Brongniart, it came from a manufactory founded prior, perhaps, to the sixteenth century. We also instance the fine earthenware, in relievo, manufactured with undoubted ability in Germany, especially in the town of Nuremberg. In the Louvre and Cluny Museums may be seen magnificent specimens of enamelled slabs and vases of architectural forms, ornamented with figures. Majolica was equally esteemed on the banks of the Rhine. Many specimens are found, dating from the latest years of the sixteenth century, in which identity of form or similarity of paste had led to their being, at first, classified among Italian majolica. However, the majority of these examples, ornamented with escutcheons and arabesques, combined generally with Latin or German inscriptions, bear on the reverse a cipher in Gothic letters, leaving no doubt as to the artist's country.

Now a word on a question we ought not to pass in silence, though it yet remains unanswered, and doubtless will never be explained.

Why is this name of *faïence* commonly given in France, almost from the revival of the ceramic art, to the productions of the new industry? Some say, "because Faenza was the first Italian manufactory to introduce painted and ornamented potteries into France, where it acquired great reputation." Others discover in France itself, a small town called Faïence, near Fréjus, in

Provence, "where the manufacture of enamelled clays was in full activity before there was any evidence of it elsewhere;" and thus it gave its name to the pottery called *majolica* by the Italians. This would be nothing less than to deprive Luca della Robbia of the merit of priority. Unfortunately for this last opinion, those who hold it cannot produce in its support any certain details of the productions ascribed to that locality, which by their very celebrity ought to have been safe from destruction.

Though scarcely lying in the province to which our observations have hitherto been limited, we must here notice the small group of productions which are known by connoisseurs under the title of *faïences fines d'Henri II.*; of these there are not more than forty* authenticated specimens. The locality



Fig. 45.—Ornament of a Dish, Italian ware. (Collection of M. le Baron Alph. de Rothschild.)

of this manufacture, which seems, so to speak, to have been isolated—for the ware is unlike any contemporaneous productions—is quite unknown. "We only know," says M. Jacquemart, "that most of the examples came from the south-west of France, from Saumur, from Tours, and especially from Thouars. As to the date, it is indelibly inscribed on the specimens, some having the salamander of Francis I., others the arms of France with three crescents interlaced, the emblem adopted by Henri II. They consist of cups, ewers, drinking-vases, oval sugar-basins, salt-cellars, and candlesticks. The form is ornate and pure, and is relieved by elegant mouldings. On the clay—a yellowish white covered with a crystallized varnish, the basis of which is lead and consequently transparent—wind bands of yellow ochre bordered with dark brown, and interlaced with all the inventive richness which characterized the period; fine arabesques in green, violet, black, and occasionally in red, enhance this decoration."

* Fifty-three pieces are now known.—A.

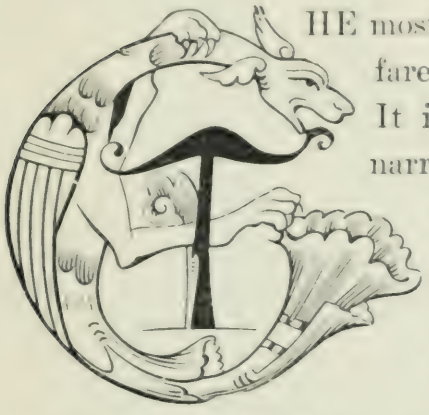
Much search has been made, but as yet without any reliable result, for the name of the artist to whom might be attributed the creation of these works, and of the individual style they denote.*

However this may be, if England claims the first application of pipeclay to fine earthenware, the French can, by showing her the Henri II. faïence, prove that, two hundred years before, an unknown artist in France was setting an example in that art in which England now prides herself.

* These doubts have been finally dispelled by the patient researches of the late M. Benjamin Fillon. The manufacture of what is now commonly known as *Oiron Faïence* was originated at the château of that name, near Thouars, by Hélène de Hangest, Dame de Boissy, widow of Arthur Gouffier, governor of Francis I. Under her supervision the famous pottery was executed by Jehan Bernart and François Charpentier, whose names have been preserved in a deed, under date 1529, by which the dame grants them the fee simple of the house and orchard in which oven and workshops were situated. After the death of Hélène, in 1537, the manufacture was carried on under the wing of her son, Claude Gouffier, who was unable to help with his taste or to exercise his mother's close supervision. After the death of Bernart and Charpentier the whole enterprise came to a rapid end.—A.

ARMS AND ARMOUR.

Arms of the Time of Charlemagne—Arms of the Normans at the Time of the Conquest of England.—Progress of Armour under the Influence of the Crusades.—The Coat of Mail.—The Crossbow.—The Hauberk and the Hoqueton.—The Helmet, the Hat of Iron, the Cervelière, the Greaves, and the Gauntlet; the Breastplate and the Cuish.—The Casque with Vizor.—Plain Armour and Ribbed Armour.—The Salade Helmet.—Costliness of Armour.—Invention of Gunpowder.—Bombards.—Hand-Cannons.—The Culverin, the Falconet.—The Arquebus with Metal-holder, with Match, and with Wheel.—The Gun and the Pistol.



THE most ancient and authentic document relating to warfare in the eleventh century is the Bayeux tapestry. It is enough to examine that complex, illustrated narrative of the conquest of England in 1066, to learn what was then the general aspect of war; and if we can rely on the testimony of miniatures from the time of Charlemagne, Roman customs are recalled in the costume and arms of warriors in the eighth and ninth centuries (Fig. 46).

In the middle of the ninth century the Normans introduced into France an entire series of defensive arms entirely novel, at least in form, namely, coats of chain mail and of iron scales, conical caps, and pear-shaped shields.

In the Bayeux tapestry the army of William is composed of three different bodies of troops: archers, or light infantry, armed with arrows and darts; foot-soldiers, or heavy infantry, using weightier arms, and clad in iron mail; and cavalry, in the midst of which figures the Duke William (Fig. 47).

The costume shows little variety; only two sorts of accoutrements are observable. One is a plain coat, worn by men who have no helmet, evidently inferior soldiers; the other is covered with iron rings, and extends from the shoulders to the knees. This belongs only to warriors whose head-dress is a narrow, conical helmet, with a cover for the nape of the neck (Fig. 48), and a nose-piece.

Some of the horsemen thus encased have boots and stirrups, others are without them, and even wear no spurs. Their shields are convex, secured to the arm by a leathern strap, generally circular at top, and terminating in a point below. Some, however, are polygonal and convex, and in the centre show a rather long point.

Offensive arms are swords, axes, lances, javelins, bows and arrows. The swords are long, of uniform width nearly to the extremity, which comes abruptly to a point, and have heavy, strong hilts. The axes exhibit no remarkable peculiarity. The spears terminate in a sharp iron point, equal in length to one-sixth of the handle. We see also clubs, maces, and pronged staves (*bâtons fourchus*).

The sling is not to be found in the hands of any warrior; but it is remarkable that, in the border of the tapestry, it is used by a peasant aiming at a bird; from which it may be inferred that the sling had become a mere weapon for field-sport. Moreover, this was also the case with the bow among the French, which was again held in honour after the advent of the Normans,



Fig. 46.—Gallo-Romano Soldiers. Fac-simile of Miniatures in the MS. of Prudentius. (Nat. Library of Paris.)

especially since the latter could ascribe to it their success at the battle of Hastings, where Harold, the opponent of William, was killed by an arrow. Nevertheless, the statutes of the Conqueror, who himself excelled with the bow, did not include that weapon among those of the nobility.

From the conquest of the Normans to the Crusades, we scarcely find anything worth notice, except the adoption of a very murderous implement, the flail; it was formed of iron balls studded with points, and attached to the end of a strong staff by small chains.

Prior to the first crusade we had no knowledge of iron chain-work, of which the Orientals made defensive helmets, but we imitated it only in a heavy and clumsy manner The experience gathered in the eastern wars was utilised to produce a network of iron which should be at once light, flexible,

and not easily penetrable. But it was not until the time of Philip Augustus and Louis IX. (the thirteenth century) that the use of mail became general (Fig. 50).

In the reign of Louis le Gros (twelfth century) we see the first attempt at a movable vizor adapted to the conical helmet of the Normans; and to the same period must be referred the invention of the crossbow; or, it may rather be said that a stock, or *arbrier*, was added to the bow, which afforded greater facility for stretching the string, and also aided in directing the arrow. This new weapon, after being exclusively used in the chase, appeared in warfare; but, in 1139, Pope Innocent II., confirming the decisions of the



Fig. 47.—King William, as represented on his seal.



Fig. 48.—Lancer of William's Army.

Lateran Council, which had condemned it as too destructive, prohibited its use. It was not restored to favour until the third crusade, under Richard Cœur de Lion.

During the first crusade, barons and knights wore a hauberk of links of iron or steel. Every warrior had a helmet—silver-plated for royalty, of steel for nobles, and of iron for the private soldiers. The crusaders used the lance, the sword, a kind of dagger called *miséricorde*, the club and the battle-axe, the sling and the bow.

Towards the middle of the twelfth century, the iron breastplate is said to have been introduced; it was placed over the chest to support the hauberk, the direct pressure of which had been found detrimental to health. But no

description of it is to be met with in those romances in which the best documentary evidence regarding the armour of the twelfth and thirteenth centuries is to be found.

Under Philip Augustus the conical helmet assumed a cylindrical form; to this was occasionally added a vizor called *ventail*, intended to protect the face. Richard I. of England is represented on his seal with this kind of helmet; level with the eyes and also at the height of the mouth are horizontal slits, which admit of seeing and breathing. Still the use of the conical helmet without vizor and nose-piece was retained even to the thirteenth century in Spain, as is proved by that worn by James I., King of Aragon (Fig. 51), which is preserved in the Royal Armoury at Madrid.

In the third crusade the use of the sur-coat became general. Its purpose,



Fig. 49.—Norman Archer.



Fig. 50.—King John, as represented on his seal. Reproduced by Meyrick.

at first, was only to mitigate the insupportable effect of the rays of an Eastern sun on metal armour. It was soon taken advantage of, however, to distinguish different nations marching under the standard of the Cross (Fig. 52). It was then made of the richest stuffs, and embroidered in gold or silver with excessive refinement.

Slingers disappeared from the French armies after the reign of St. Louis. As for the archers, those of England at that time wore a leathern jacket, adopted subsequently by the French archers, and called *jacque d'Anglois*. The *jacque* became the fashion in France, was made in every kind of costly material, and continued in use until the end of the fourteenth century; Charles VI. wore one of black velvet during a journey he made to Brittany.

The casque, or helmet, from that time enclosing the head entirely, assumed a barrel form under St. Louis. In addition to the helmet there was









CASQUE MORION AND HELMETS.

With and without visors, from the Armeria Real at Madrid.

also worn the *chapel de fer*, at first a simple cap underneath the hood of the hauberk, but afterwards a hat almost of the form of the felts now in use. To protect the neck there was also attached to the rim of the hat a tippet of mail, falling on the shoulders, and called *camail*. The iron cap then took the name of *coiffre* or *cervelière*, and later it became a kind of reversed pot concealing the entire head, and kept in position by its weight only (Fig. 53).

Throughout this development the tendency had been towards a complete case of iron. A king of Scotland, of the thirteenth century, is represented on his seal with a plate of armour to protect the elbow. The knee-cap followed. Under Philip the Bold, successor of St. Louis, the iron *grèvières* (greaves), to protect the front of the legs, were adopted. In the reign of Philip the Fair we have the first example of an iron gauntlet with its fingers separate and jointed; previously it was merely an inflexible piece covering the back of the hand. About the same time the *cervelière*, either

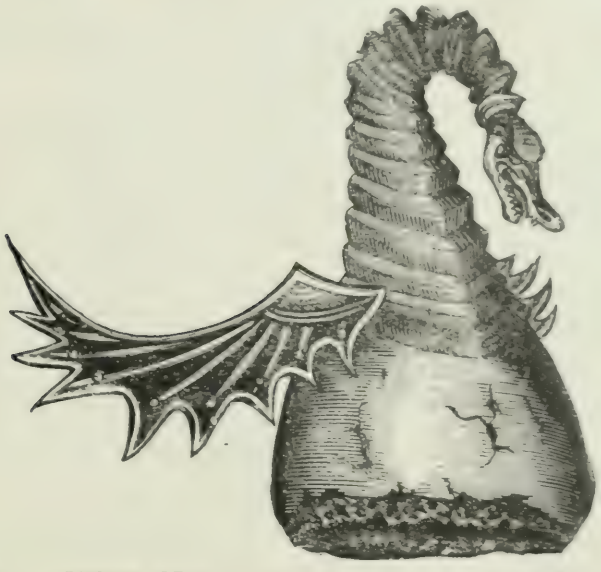


Fig. 51.—Helmet of Don Jaime el Conquistador. (Royal Armoury, Madrid.)

flat or spherical, became pointed at the top, and took the name of *bassinet*; but this bassinet was unlike the casque which, in the following century, retained that name, and was made completely closed. The exact period of the transition from mailed armour to that of plain iron or steel, called also plate-armour, dates from the first thirty years of the fifteenth century (Fig. 55).

The annals of Florence contain a statue of 1315, requiring every horseman serving in a campaign to have a helmet, a breastplate, gauntlets, cuishes, and leg-pieces, all of iron; but in France and England the whole of these pieces were not adopted until somewhat later.

About the same period some portions of iron horse-armour began to make their appearance. We find entered in the inventory of the armour of Louis X., a *chanfrein* (a plate of iron fastened on the horse's forehead).

The crossbow, for some time prohibited by ecclesiastical authority, was the

weapon most in use in France at this period. It had the double advantage of being drawn with more power than the ordinary bow, and of throwing its bolts with greater precision, and a lower trajectory. Historians say that at Crécy, in 1346, there were fifteen thousand crossbow-men in the French army. The Genoese were considered the most skilful in Europe; and next, those of Paris. A manuscript in the British Museum shows them wearing iron helmets, brassarts, and leg-pieces; and for body-covering, jackets with



Fig. 52.—Knight in his Hauberk (after Meyrick).

long, hanging sleeves. While the bowmen had both hands occupied in discharging their arrows, shield-bearers were employed to protect them (Fig. 57).

Under John the Good, that is in the middle of the fourteenth century, plate armour was generally adopted; the long coat of mail, heavier and less convenient, was entirely abandoned; but chain-armour still covered certain parts of the body not yet protected by iron plates. The *bassinet*, then very pointed, was furnished with mail, covering the neck and a portion of the shoulders. The upper part of the arm was protected by a half-armlet, called the *épaulette*, but the lower part was provided with mail.

Ornaments began to be introduced in armour in the reign of Charles V.; until that time it had a simple and plain appearance, but now engraving and chasing became common. In the time of Charles VI., four or five flexible plates, called *faldes*, were devised to protect the lower part of the stomach without impeding the movements of the body. A little later, *tassettes* were added; they were attached to the top of the thigh to guard the hips and the groin.

It appears that at this period the artisans of Milan were especially renowned for the manufacture of armour; for Froissart relates that Henry IV., King of England, when Duke of Hereford, and preparing to enter the lists with the Duke of Norfolk, requested armour from Galeazzo, Duke of Milan, who sent it with four Milanese armourers. The swords and spears made at Toulouse and at Bordeaux were also held in great repute; so also were the double-handed swords in use from the middle of the thirteenth century,

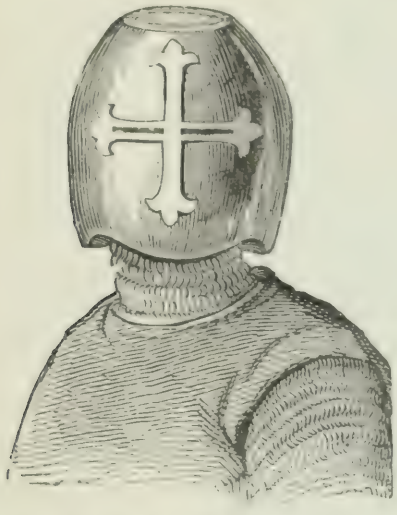


Fig. 53.—Helmet of Hughes, Vidame of Chalons. (End of Thirteenth Century.)



Fig. 54.—Tournament Helmet, screwed on the Breastplate. (End of Fifteenth Century.)

and manufactured at Lubeck, in Germany. The steel helmets of Montauban were also much in request.

Towards the commencement of the fifteenth century, war-engines distinct from those in which powder was used had attained a remarkable degree of perfection. When John the Fearless, Duke of Burgundy, marched upon Paris, in 1411, there was with his army a considerable number of machines called *ribaudequins*, a species of gigantic crossbow drawn by a horse, which threw javelins to a great distance.

Under Charles VII., the breastplate of the cuirass was composed of two parts: one covered the breast; the other, reaching to the hips, protected the stomach, and was attached to the former by clasps and leather straps. Generally the breastplate was boldly convex.

Taught by the disastrous defeat of Agincourt—where ten thousand men,

of whom eight thousand were of the nobility, had fallen owing to the precision and celerity of the English archers—Charles VII. instituted in France the *franc archer* (Fig. 58), who wore the *salade* and the jacket or *brigandine*, and carried dagger, sword, bow or crossbow, and quiver. These archers were exempt from all taxes, their equipments were not distrainable for debts, and during war they received pay at the rate of four livres a month.

The *salade* was pre-eminently the helmet of the epoch of Charles VII. At first it was a headdress for war, composed of a simple cap, covering

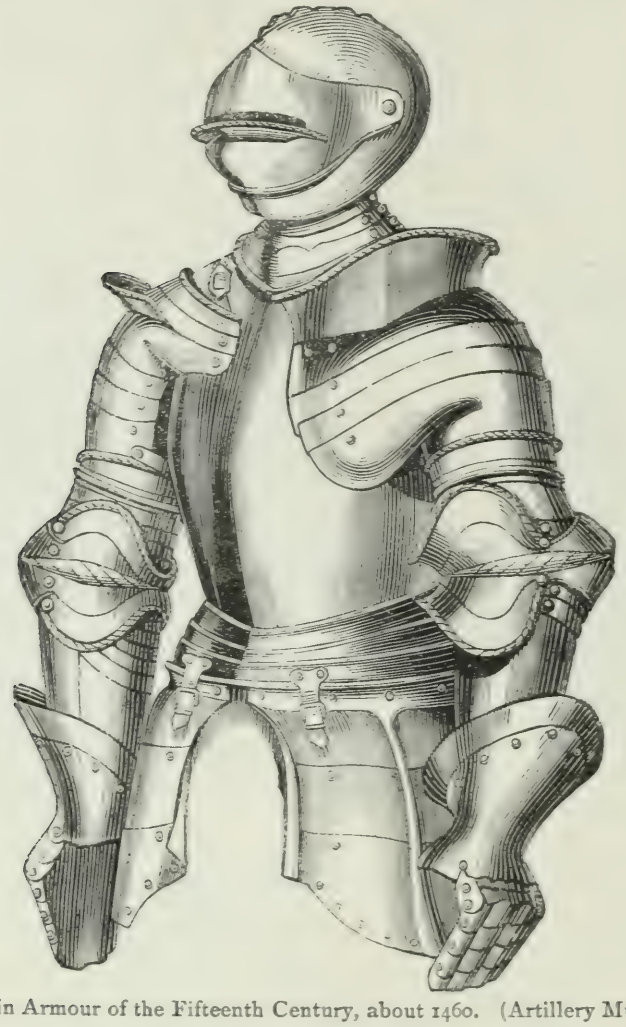


Fig. 55.—Plain Armour of the Fifteenth Century, about 1460. (Artillery Museum, Paris.)

the top of the head, with a pendent piece of metal of greater or less length at the back, which sometimes was made for protecting the neck, and sometimes to guard a portion of the shoulders. Towards the end of the fifteenth century a small vizor was added to the *salade;* this was gradually lengthened downwards to near the upper lip, and a narrow opening was then made in it for the sight. In the reign of Louis XII. the *salade* received a chin-piece, the lower part of which was a *gorget*, surrounding and protecting the neck. The top of the cuirass had a cord, to which was attached the *salade*.

The *brigandine* was composed of small plates of steel or iron arranged like

fishes' scales on a strong piece of leather, and stitched or fixed with wire. A decree of Peter II., Duke of Brittany, issued in 1450, ordered the nobles to equip themselves as archers in brigandines, if they knew how to use arrows; but otherwise, to be provided with *guisarmes*, with good *salades*, and leg-armour; each noble was to be attended by one *coustillier*, and to have two good horses. The *gaisarme* was a sort of two-edged and pointed javelin.

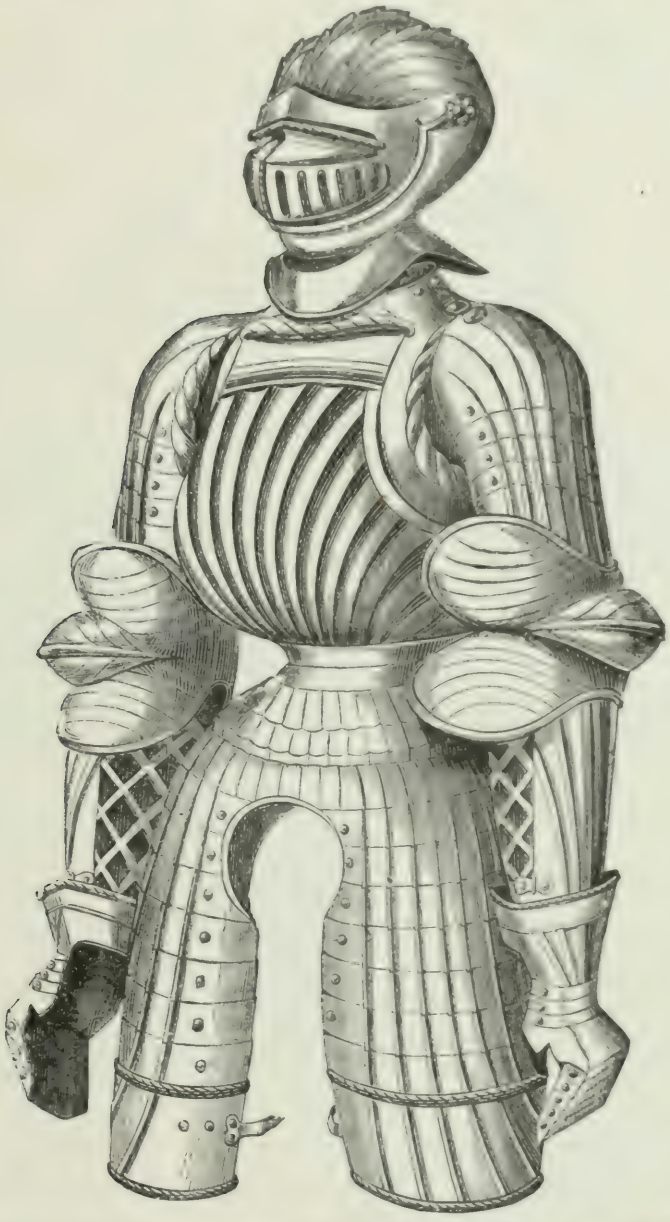


Fig. 56.—Convex Armour of the Fifteenth Century, said to be that of Maximilian. (Artillery Museum, Paris.)

The *coustillier* was a foot-soldier, or a horseman, whose duty it was to act as a servant to the nobleman, and to carry the *coustille*, a long slender sword, triangular or square, apparently resembling the foil in our fencing-rooms

About this period French noblemen displayed much magnificence in the adornment of the *chanfrein* of their horses. For instance, we know that at the siege of Harfleur, in 1449, the charger of the Count de Saint-Pol had on its head a massive gold chanfrein, of the most delicate work, valued at not

less than twenty thousand crowns. In the same year, at the siege of Bayonne, the Count de Foix entered the conquered city mounted on a horse whose chanfrein of polished steel was enriched with gold and precious stones to the value of fifteen thousand gold crowns.

Half a century later chargers wore, besides the chanfrein, the *manefaire*, protecting the neck, the *poitrail*, the *croupière*, the *flancois*, which respectively covered the chest, the back, and the flanks of the horse; and to these was added another piece of armour placed under the tail.

Louis XII. was the first to admit Greek mercenaries into his army.



Fig. 57.—Crossbow Men protected by Shield-bearers (Fifteenth Century). After a Miniature from the Chronicles of Froissart. (MS. Bibl. Nat. de Paris.)

These were named *stradiots;* they tendered their military services equally to both Turks and Christians. The armour of these troops consisted of a cuirass with sleeves and gauntlets in mail, and over this a jacket; on their head a vizorless helmet was worn. The stradiots were armed with a large sword, called a *braquemart*, much resembling the Turkish sword, but with a cross handle; the sword and its scabbard were ornamented with Grecian devices. They carried in addition several small arms at the saddle-bow, and also a *zagaye*, a very long lance, tipped at both extremities with iron.

At this period also was introduced the *pertuisane*, or partisan, the blade of which, wider than that of the lance, curved slightly from the handle. There

were at that time two kinds of crossbows—one for discharging bolts, the other for bullets. The bow was drawn by means of a *moulinet*, a kind of hand winch.

In the reign of Francis I. embossed or ribbed armour was in fashion



Fig. 58.—Franc Archers (Fifteenth Century). From the Painted Hangings of Rheims.

(Fig. 61). The armour worn by Francis at the battle of Pavia is preserved in the Artillery Museum in Paris. The body is longer than in the cuirass of the preceding century, the rib in the centre is more raised, the gusset of the shoulder-piece is made of several movable plates, and of large size. The

casque, a generic name given since those times to all descriptions of head-armour, assumed a comfortable and elegant shape, which was maintained as long as the use of armour continued.

Another cuirass of the same date, still longer in the body, was made to turn up towards the lower extremity, and then took an inward bend to fit the hip. It was made with movable plates overlapping from below; this allowed the wearer to stoop, which it was almost impossible to do when the breast-piece and the back-piece were in one. Sometimes these plates were only three or four in number over the stomach, those over the breast being feigned.



Fig. 59.—Knights in complete Armour, with the *Salade*. (End of Fifteenth Century.) A Single Combat, taken from "The Triumph of Maximilian," by Burgmayer, after a drawing by Albert Durer.

The armour called *à éclisse*, or *à écrevisse*, worn at a certain period by the halberdiers, must not be passed over; it received this name because the cuirass was made of horizontal plates (*éclisses*), three or four inches in width, which, though they covered the entire body, did not in any way impede its movements.

We must, however, refer to a peculiarity in this armour which prevented its general adoption; it was that as the movement or "play" of the *éclisses* made it convenient to wear, so from this flexibility it was found that the

plates frequently became disconnected, and thus left a part of the body defenceless. In making the *éclisses* to overlap from below, regard was had to the usual direction of a sword-cut or dagger-thrust, which usually came from below; but there was all the more danger from blows of the *martel* and battle-axe, the strokes of which were directed downwards.

Bronzed armour came in about the middle of the sixteenth century, and

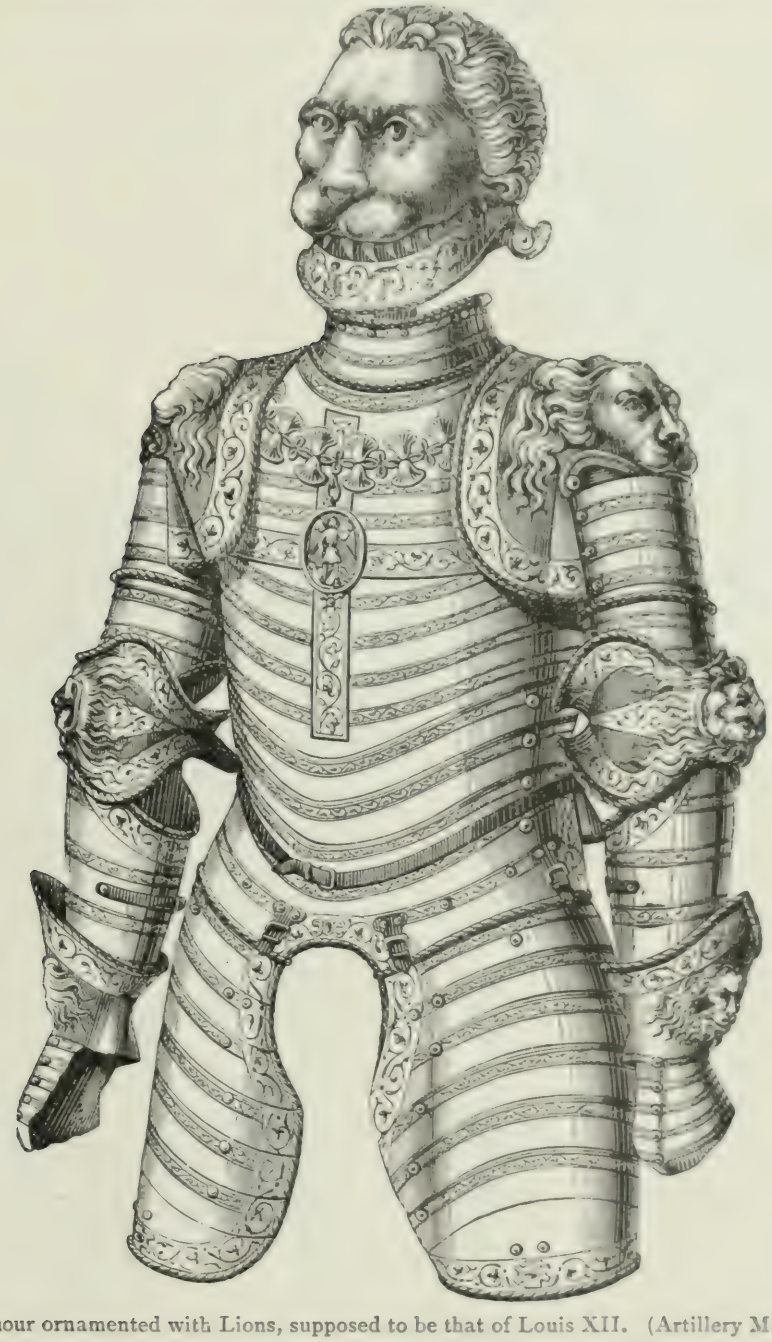


Fig. 60.—Armour ornamented with Lions, supposed to be that of Louis XII. (Artillery Museum, Paris.)

was somewhat commonly worn in 1558; it was introduced on account of its being far more easily kept clean than polished steel. For the same reason black armour was tried, but the engravings and chasings, the gildings and damaskeenings were more effective on the greenish ground; consequently black varnish was given up in favour of bronze. At the end of the

sixteenth century, and during the long civil wars which desolated France, armour took a variety of shapes, and as regards ornamentation at least, there was generally to be seen a strange medley of the style of the previous century

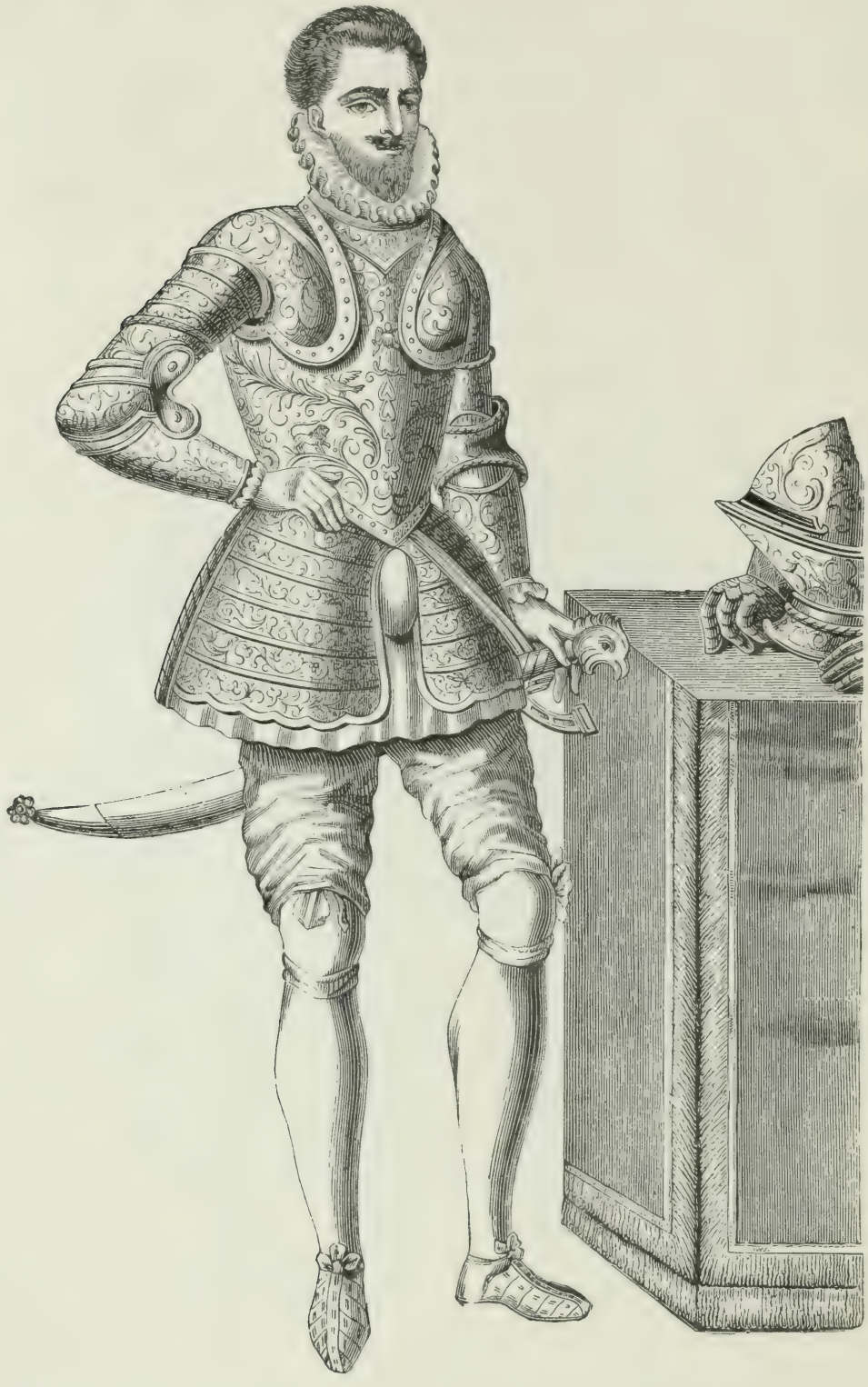


Fig. 61.—Damaskeened Armour of the end of the Sixteenth Century. (Portrait of François, Duc d'Alençon, from Montfaucon's "La Monarchie Françoise.")

with that of the period (Fig. 61). However, the decline of the use of armour, which became in a measure inevitable, was at hand.

De la Noue, an eminent Huguenot officer of the time of Charles IX.,

says, in his "Discours Militaires," "The penetrating power of pikes and arquebuses has very naturally led to the adoption of armour stronger and more capable of great resistance than formerly. It is now so heavy that one is laden with anvils rather than protected by armour. Our men-at-arms and light cavalry in Henry II.'s time presented a much finer appearance, with their helmets, brassarts, tassets, and morion, and the pennoned lance. Their armour was not so heavy but that a strong man could support its weight for twenty-four hours, while that of the present day is so ponderous that a young knight of thirty has his shoulders quite crippled."

Thus, in endeavouring to make the resistance of armour keep pace with

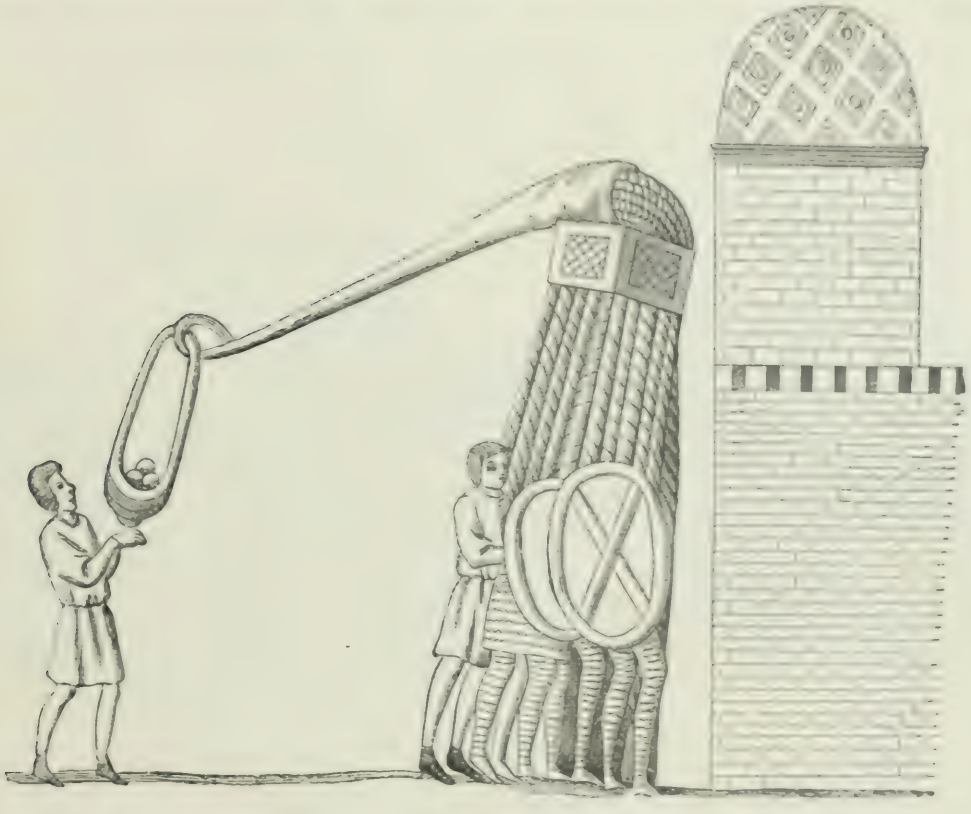


Fig. 62.—Engine for hurling Stones. Taken from a Miniature of the Chevalier au Cygne. (Bibl. Nat. de Paris, No. 340, S. F.)

the improvements in warlike engines, they rendered it useless, and the changes which led to its final abandonment began. There is every reason to think that the magnificent armour presented by the Republic of Venice to Louis XIV., in 1668, which is now to be seen in the Artillery Museum in Paris, was one of the latest suits made in Europe.

Let us now retrace our steps to examine a series of weapons, the gradual adoption of which was destined to completely change the art of warfare.

It is now the almost universal opinion that the invention of gunpowder (assumed to have been discovered in 1256) or at all event its application to artillery (which first dates from 1280) is due to Berthold Schwartz, an Augustine friar, born at Fribourg. Some writers, however, make these dates

a century later, and affirm that powder and cannons were first known from 1330 to 1380. Nevertheless, the employment of explosive artillery only became general during the wars of Charles V. and of Francis I., that is, towards 1530, or two centuries after its invention.

The earliest allusion to cannons in France is found in 1338, in an account of the treasurer of war, wherein we read, "To Henri de Vaumechon, for buying powder and other necessaries for cannons," which had been used at the siege of Puy-Guilhem, in Périgord.

In Froissart, we find that the inhabitants of Quesnoy, when repelling the attack of the French, in 1340, made use of bombards and cannon which hurled huge bolts at the besiegers. But the statement of Villani, that the English were indebted to the employment of artillery for the victory of

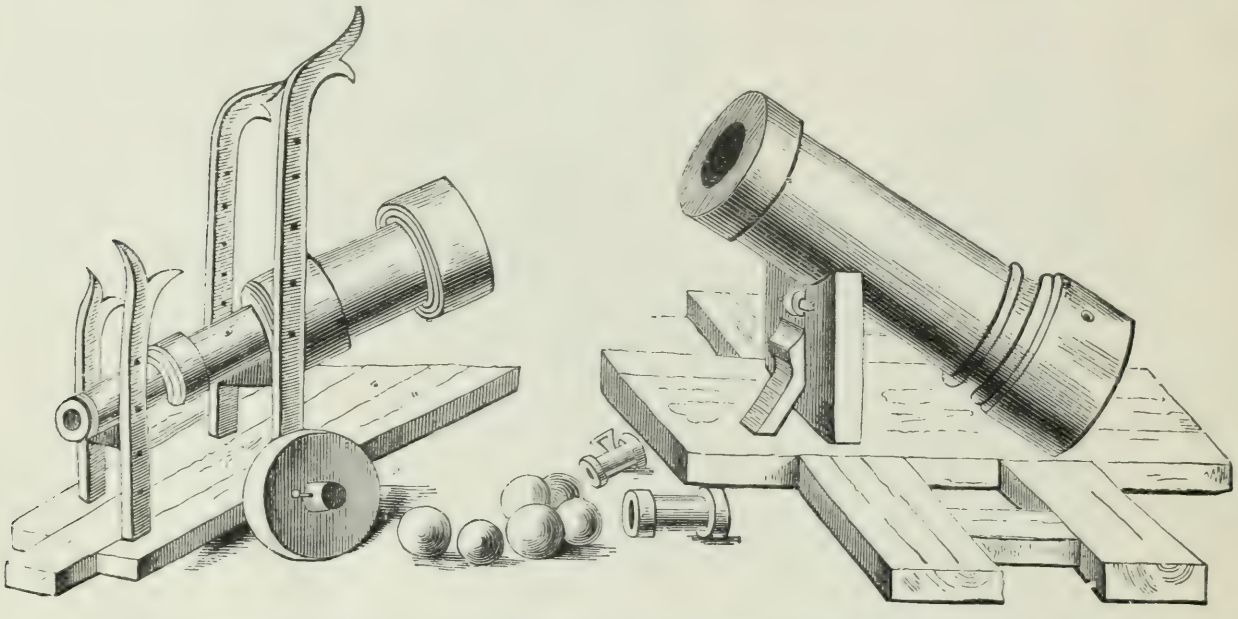


Fig. 63.—Bombards on fixed and rolling carriages. (From the MSS. 851 and 852, Bibl. Nat. de Paris.)

Crécy, in 1346, must be treated as a pure invention, because it is certain that the firearms which may have been in use at that time were in no way suited to field warfare; and that they were only employed with the older engines in the attack and defence of fortresses. Not only did their cumbrous weight and the rude construction of their carriages render them extremely difficult of transport, but, intended as they were to be employed as catapults, they were generally constructed for hurling heavy projectiles, by causing these to describe a curved line, like modern shells; and their shape is, in fact, much more like that of our mortars or howitzers than of cannon proper (Fig. 63).

"It would seem," says M. de Saulcy, "that, in loading them, hollow cylinders (*manchons*), or movable chambers, were used, in which the charge was previously laid; and these fitted, by means of a wedge, into the body of the piece."

The name *bombards*, which we have just used, and which is derived, as we may conclude, from the Greek *bombos* (noise), was the first employed for designating cannon; but these engines were so imperfect in principle, and so feeble in power, that catapults, which had played so signal a part in sieges during the Middle Ages, were used in preference when very heavy projectiles had to be hurled (Fig. 64).

Originally the piece rested on a fixed and immovable support; but soon the means of sighting had to be considered, and pieces that could be moved up and down by means of trunnions were invented; others were elevated or depressed for firing by a sort of tail or long projection behind the tube; at

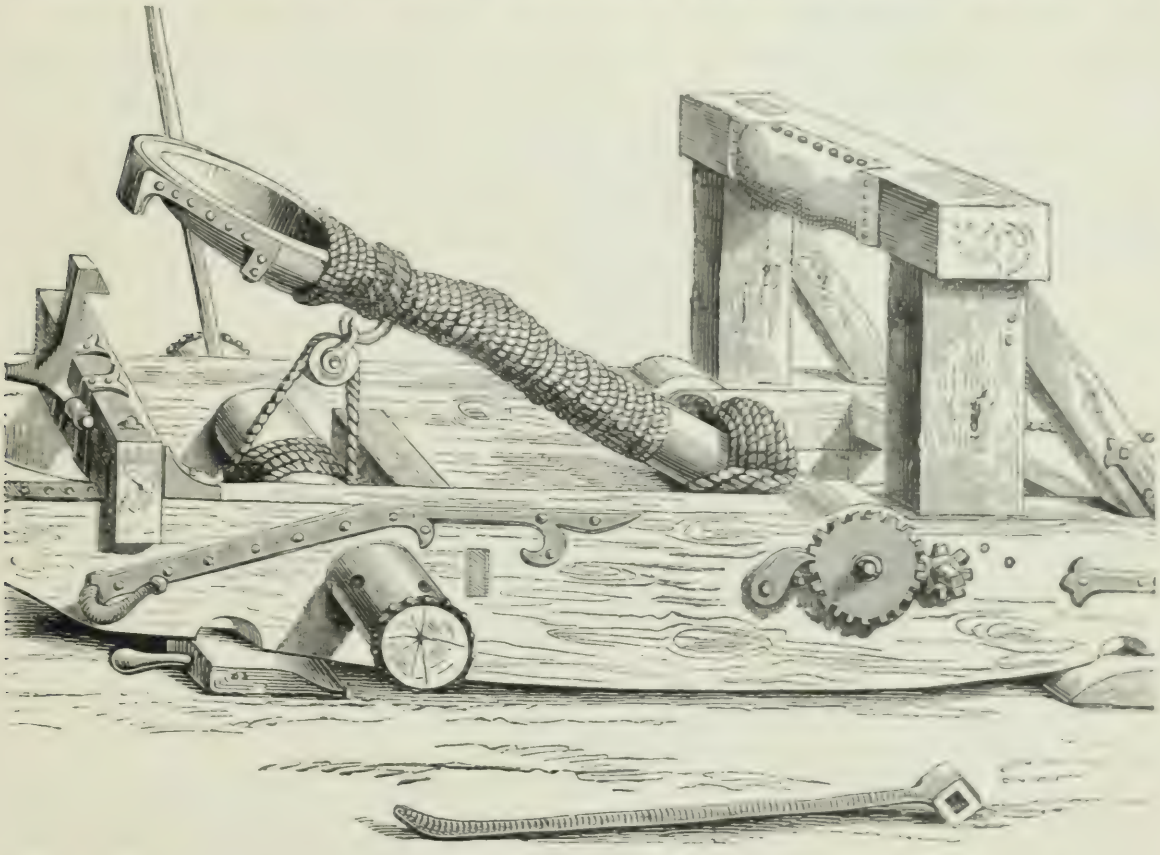


Fig. 64.—Mangonneau; an engine of war of the Fifteenth Century. (Miniature in the MS. 7,239, Bibl. Nat. de Paris.)

other times the muzzle of the cannon is sustained by a fork more or less buried in the ground. This bombard, attached to a platform on wheels, received the denomination of *cerbotana ambulatoria;* this last word conveying the idea of the movability of the engine.

We have seen that projectiles were of stone, but there is no doubt that from the fourteenth century they were also made of metal. That was nothing new, for ancient engines of war, including the sling, threw leaden balls and masses of red-hot iron.

Christine of Pisa, who wrote in the time of Charles VI., has left us some very interesting details of the condition of powder-artillery. In her descrip-

tions of armaments, and in her narratives of battles, however, we nearly always see catapults, machine crossbows, &c., by the side of the cannon—a certain proof that powder was long in winning its victory over the ancient methods.

Valturio, an Italian writer whose treatise on military art was first printed in 1472, has described and drawn all the engines of war then in use. Cannons are not forgotten. We observe that the greater number of these pieces have no longer any box forming a movable chamber; this implies an important advance in the art of making them; but, on the other hand, these cannons, bound with cords to a block of wood, or resting on platforms, must have been very difficult to move.

At this period pieces of the largest calibre, which threw enormous stone balls, were more commonly called *bombards;* mortars, or very short pieces throwing heated projectiles; cannons, pieces of medium calibre carrying iron projectiles (Fig. 65); culverins, long pieces loaded with leaden balls, which, as well as the powder, were rammed in with an iron rod; hand-cannons, or

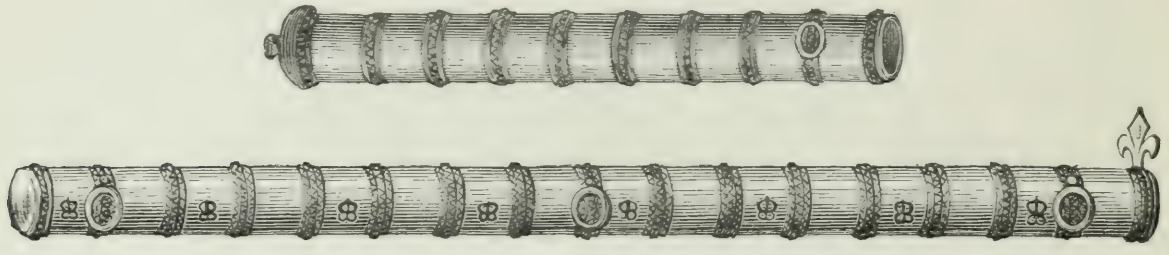


Fig. 65.—Early Cannon, in the Tower of London.

bâtons à feu (Fig. 66), were in a manner portable, but though carried by one man they always had a second at hand to fire them.

According to M. de Saulcy, the most important improvement ever made in artillery is certainly that which consisted in placing a gun with trunnions on a divided carriage; this carriage was mounted on wheels, and admitted of the gun being inclined by the simple use of a wedge of wood placed under the breech. Strangely enough, it is most difficult to state the precise date of this improvement. Nevertheless, circumstances tend to the belief that it was between 1476 and 1494—that is, during the reigns of Louis XI. and of Charles VIII.—that they succeeded in making pieces of all calibres carrying iron shot, and also in solidly fixing the trunnions, which not only supported the weight, but also resisted the recoil of the cannon. The carriages for these guns were mounted on wheels. From this period the art of fortifying towns underwent a change amounting to a revolution.

When, in 1494, Charles VIII. entered Italy to conquer the kingdom of Naples, the French artillery excited universal admiration. The Italians had

only iron guns, drawn by bullocks in rear of the army, and more for appearance than for use. After the first discharge it was some hours before the gun was ready for a second. The French had lighter cannon of bronze, drawn by horses, and moved with so much order that their transport hardly delayed the march of the army; they planted their batteries with incredible promptitude, considering the period, and the rounds were as quickly delivered as they were well aimed. Cotemporaneous Italian writers say that the French used almost exclusively iron shot, and that the guns, both of large and small calibre, were admirably balanced on their carriages.

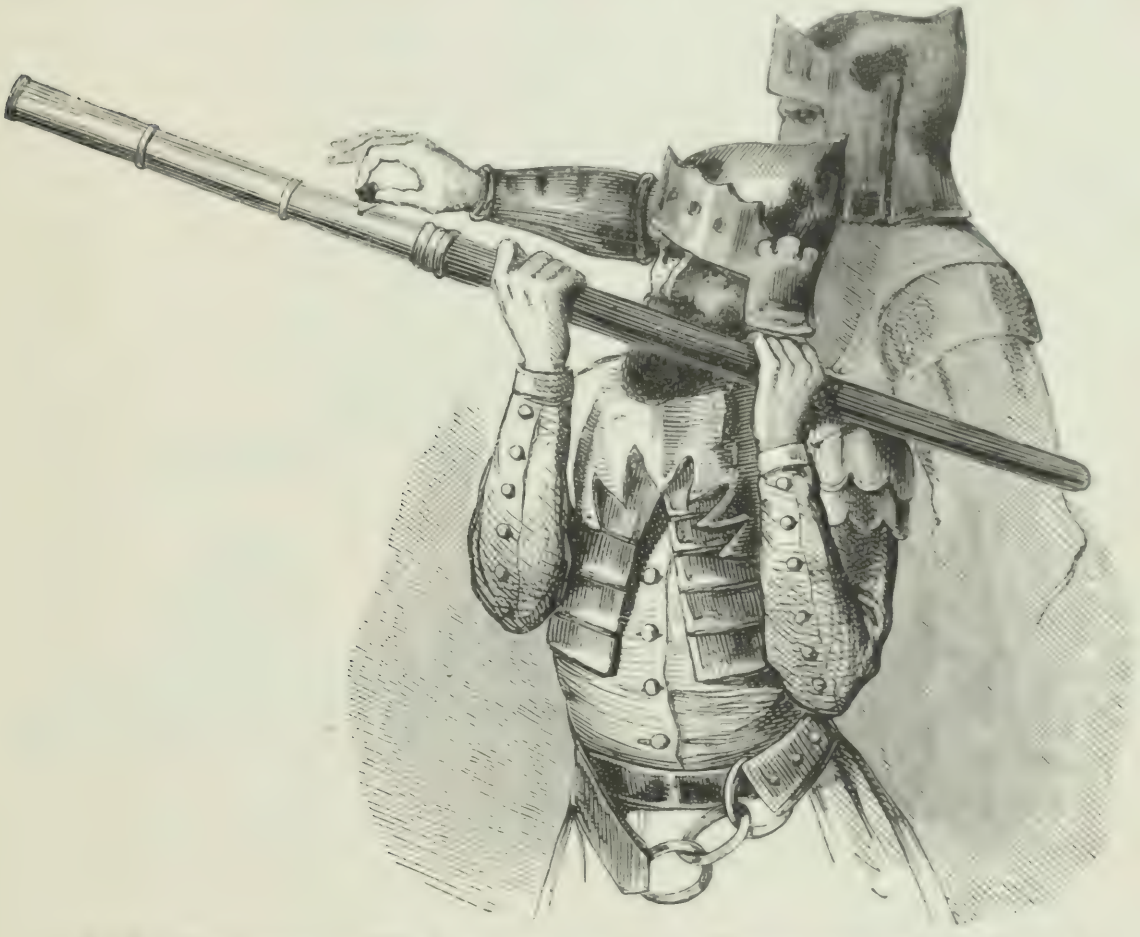


Fig. 66.—Hand Cannon (or *Bâton à feu*), taken from a piece of Tapestry belonging to the Church of Notre-Dame de Nantilly, Saumur.

Yet no single specimen, or even drawing, of this remarkable artillery has been handed down to us. The Museum of Artillery does, indeed, possess one small piece, on which, between the trunnions and the breech, is this inscription:—"Presented by Charles VIII. to Bartemi, Lord of Pins, captain of the bands of artillery, in 1490." This cannon presents nothing remarkable in its construction, for we already recognise the form, one that has scarcely varied since then, and which, it seems, was definitely adopted under Louis XII. and Francis I. Of this period we still have two magnificent bronze cannons. They were found at Algiers in 1830; the

porcupine, the salamander, and the fleur-de-lys upon them betrayed their origin.

Artillery, which in the reign of Charles VIII. had become an important arm, and had besides the prestige of success in Italy, became a subject to which particular attention was given in succeeding reigns. But, we again say, the true principles of manufacture and mounting were already well ascertained, and only improvements in matters of detail remained to be discovered.

The Royal Armoury of Madrid contains a curious *dragonneau*, cast at Liège in 1503, which figured in the siege of Santander in 1511 (Fig. 67). The carriage, consisting of a single piece of carved oak, is by its delicacy and finish worthy of sustaining this masterpiece of bronze work, which

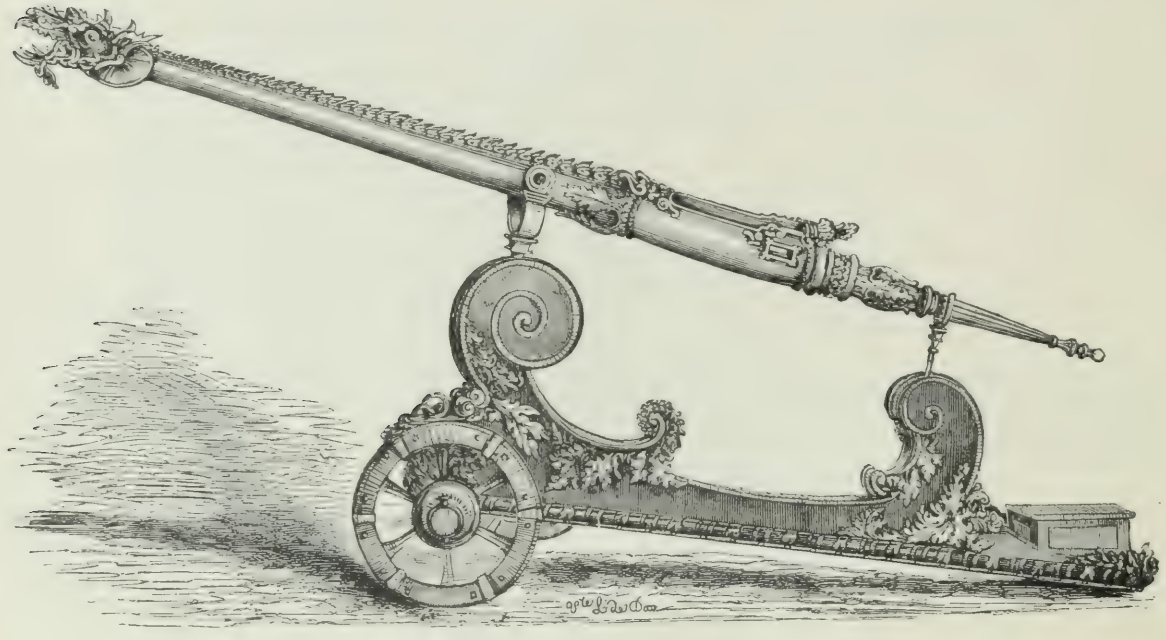


Fig. 67.—Double-barrelled Dragonneau. Royal Armoury of Madrid.

presents a double interest, first as regards art, and then on account of the rapid advance already made in firearms; for this *dragonneau* has a double barrel, and is loaded at the breech.

Having arrived at this point, let us again retrace our steps, in order to note, and rapidly follow from its origin, the progress of firearms.

Those used in the middle of the fourteenth century were called hand-cannon, and consisted of an iron tube pierced with a vent, without stock or lock.

A manuscript of that period represents a warrior standing on one of those little movable towers which then formed part of the siege *matériel*, and shooting a stone from a gun of this description. The piece is resting on the parapet. By the side a sling is placed with its stone—a circumstance which

indicates the relative power of the hand-cannon, as no doubt each engine was to be used alternately. In another place is a horseman holding a small gun with a prolongation; the muzzle is supported by a prong fixed on the



Fig. 68.—Arquebusier. Drawn and Engraved by J. Amman.

pommel of the saddle. It was impossible to take aim, and he applied the match with his hand.

A little later, to prevent the effect of the recoil, there was added below

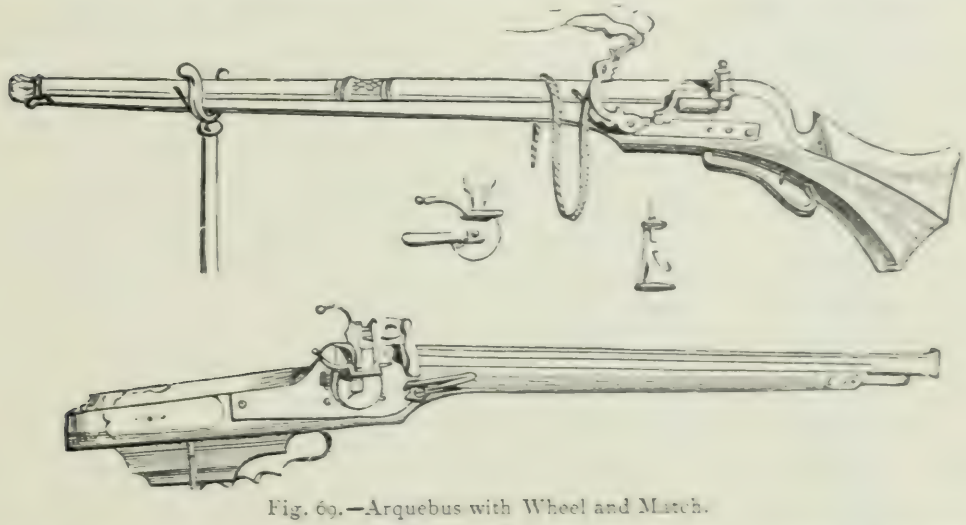


Fig. 69.—Arquebus with Wheel and Match.

the barrel, a little short of the centre, a sort of hook, intended to serve the purpose of checking the piece. When fired, it was supported on a fork or on a wall; hence the name of *arquebuse à croc*, which took the place of that of *canon à main*.

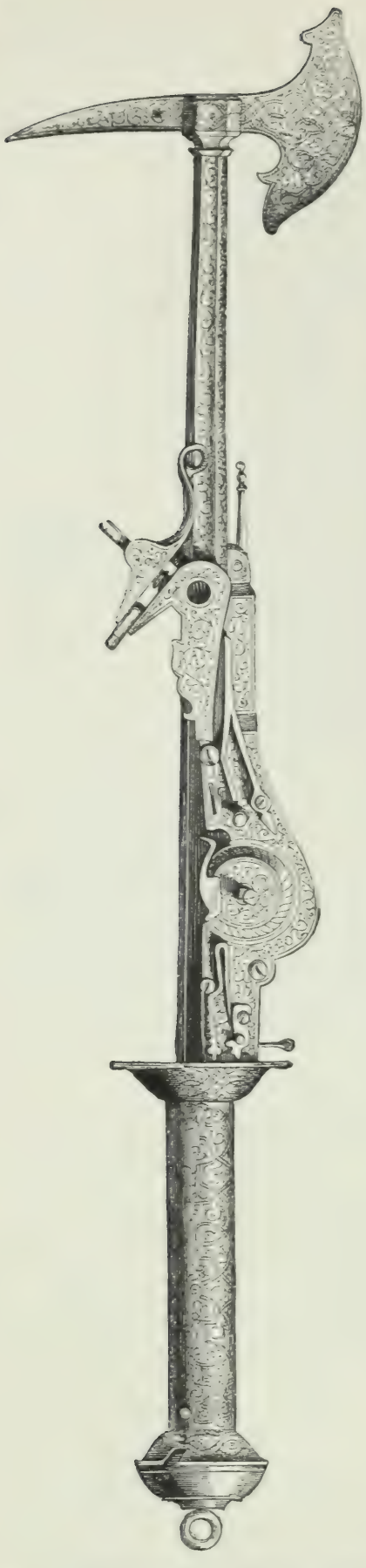


Fig. 70.—Battle-axe and Pistol of the Sixteenth Century. (Artillery Museum, Paris.)

The *arquebuse à croc* sometimes weighed from fifty to sixty pounds, measured from five to six feet in length, and in principle was chiefly adapted for firing from a wall; it was lightened a little for use by foot soldiers, who, however, never fired it without a fixed or a movable rest.

The inconvenience of applying fire with the hand, which, moreover, prevented the right direction of the missile, was soon partially superseded by adapting to the barrel a stock to fire from the shoulder, and a lock for a match, called a *serpentin*, which had only to be let down to ignite the powder at the touch-hole. This was the matchlock arquebus which secured victory to the Spaniards at the battle of Pavia; it has been used by certain Eastern nations in our own time.

Although the matchlock arquebus, made lighter and called a *mousquet*, continued to be the usual arm of infantry until the time of Louis XIII., many serious objections to the use of the *serpentin* continued. It compelled the soldier always to have a lighted match, or some means of striking a light. Besides, for nearly each shot it was necessary so to regulate the match that the end of it, which was placed in the head of the *serpentin* (lock), should come exactly into the priming-pan; then the priming-pan had to be opened; these operations were, so to speak, impossible for mounted men, who at the same time had to manage their horses.

About 1517 the Germans invented the wheel-lock (Fig. 69).

To the Spaniards is due the merit of the improvement that followed, the type of which is still in a measure perpetuated in our percussion locks. The Spanish lock had on the outside a spring, which pressed on one of the catches of the hammer; when the gun was

cocked the other catch pressed against a pin which projected from the inside and traversed the screw-plate; this pin could be removed, and then the spring acted on the hammer, which was no longer held back; the flint (for at that time a flint was fitted to the gun) struck upon a ribbed plate of steel forming part of the cover of the priming-pan, the action of the flint on the plate produced the fire.

Among the arms in use during the sixteenth century was the petronel. This short and heavy arquebus, which threw very large balls to a short distance, was usually suspended from the shoulder by a strap or a broad cross-belt.

Then followed the *pistoles* and the *pistolets*, thus named, it is said, because they were invented at Pistoia; but, with other etymologists, we may believe they owed their name to the fact of their bore being of equal diameter with that of the *pistole*, a coin of the time. The earliest pistols were made with wheel-locks, and the barrel did not measure more than a foot in length. Subsequently they varied in shape and in use; some were made which fired several shots in succession; in other cases a pistol was combined with the dagger or the battle-axe. (Fig. 70, &c.) We reproduce a very fine specimen.

We must not forget to note, in what may be called weapons *de luxe*, the joint application of the match-holder and the wheel to highly-finished arms, this combination being available.

The screw-plate *à miquelet*, improved by French experiments, led to the mechanism called flint-lock (*fusil*). There were then pistols and arquebuses with flint-locks, as formerly there had been pistols and arquebuses with wheels. Subsequently the explanatory became the absolute term, and the entire weapon was known as *fusil*.



Fig. 71.—Banner of the Sword-cutlers of Angers.

CARRIAGES AND SADDLERY.

Horsemanship among the Ancients.—The Riding-horse and the Carriage-horse.—Chariots armed with Scythes.—Vehicles of the Romans, the Gauls, and the Franks: the Carruca, the Petoritum, the Cisium, the Plaustrum, the Basterna, the Carpentum.—Different Kinds of Saddle-horses in the Days of Chivalry.—The Spur a distinctive Sign of Nobility: its Origin.—The Saddle, its Origin and its Modifications.—The Tilter.—Carriages.—The Mules of Magistrates.—Corporation of Saddlers and Harness-makers, Loriners, Coach-makers, Chapuiseurs, Blazonniers, and Saddle-coverers.



THE horse has been described by Buffon as "the noblest conquest of man." Historians, both sacred and profane, inform us that the conquest dates from the most remote ages. In the Book of Job we have a magnificent description of him. Xenophon, in his "Treatise on Horsemanship" and his "Instructor of Cavalry," and Diodorus in his "Histories," among the Greeks, adduce the most numerous testimonies to the honour in which equestrian exercises were held. Among the Latins, Virgil, in reference to the funeral games celebrated by Alcestes in honour of Anchises, tells us that the Roman youth were taught the equestrian art as practised by the Trojans. The horse and chariot races which took place at the solemn games in Greece have always been justly celebrated, as were those which continued in Rome and in all the great cities of the Roman world until the fifth or sixth century.

We are disposed to believe that the use of the saddle-horse and the carriage-horse dates from about the same time; but it seems that chariots were rarely mounted by any but chiefs.

To Cyrus the Great is ascribed the first idea of arming chariots with scythes, which cut to pieces in every direction those who opposed the progress of the vehicle, or who were thrown down by the violence of the shock. The same war-carriages were found among the Gauls; for a king named Bituitus, having been taken prisoner by the Romans, appeared in his chariot

armed with scythes in the triumphal procession of the general who had conquered him.

Riding on horseback was not only practised, but was carried to the highest degree of perfection among the nations of antiquity, and the use of chariots was, in former times, almost general in war and on certain state occasions. The Romans, and in imitation of them the Gauls, who prided



Fig. 72.—The Carruca, or Pleasure-Carriage, drawn by a Pair of Horses, in use from the Fifth to the Tenth Century. (Taken from a MS. of the Ninth Century, in the Royal Library at Brussels.)

themselves on being skilful carriage-builders, had several sorts of wheeled vehicles. Those adopted by the Romans and the Gauls, but discountenanced by the Franks, who preferred to ride on horseback, were the *carruca* or *carruque*, with two wheels and a pair of horses (Fig. 72), richly ornamented with gold, silver, and ivory; the *pilentum*, a four-wheel carriage with a cloth

canopy; the *petoritum*, an open carriage suitable for rapid travelling; the *cisium*, a basket-carriage drawn by mules, and used for long journeys; and finally, various carts—the *plaustrum*, the *serracum*, the *benne*, the *camuli* (trucks), &c. These last, which were chiefly employed as field carts, continued in use even after pleasure-carriages had entirely disappeared. There remained, however, independent of mule-litters, the *basterna* and *carpentum*, state carriages of the Merovingian period, but only queens and ladies of high rank, who were unequal to long journeys on horseback, indulged in such means of locomotion, while men—even kings and high personages—would have blushed to be conveyed like "holy relics," as picturesquely expressed by



Fig. 73.—Cart drawn by Oxen, end of the Fifteenth Century. (Taken from the "Chroniques de Hainault," MS. in the Royal Library at Brussels.)

one of Charlemagne's courtiers; but certainly not at the period of the "lazy kings," when, as Boileau has well said,—

> "In Paris, four oxen, in pace soft and slow,
> Drew the lazy monarch, when airing he'd go."

"Chivalry," wrote M. le Marquis de Varenne, "the exercises of which were the image of war, rendered horsemanship indispensable in the education of the nobility; and *chevalier* soon became synonymous with a man of good birth." "The Book of Facts," by the "Bon Chevalier Messire Jean le Maingre, called *Baucicaut*, Marshal of France," written in the beginning of the fifteenth century, describes the training which a youth aspiring to the title of a gentleman had to undergo:—"They endeavoured to leap (*sailler*) upon a charger, fully armed; *item*, leaped, without placing the foot in the

stirrup, on a charger in all its armour; *item*, leaped from the ground a-straddle on to the shoulders of a tall man on a large horse, seizing the man by the sleeve with one hand, without other assistance; *item*, placing one hand on the saddle-bow of a large charger, and the other near the ears, taking him by the mane, and from the level ground jumping to the other side (*côté*) of the charger."

The Chevalier Bayard, while yet page to the Duke of Savoy, and only seventeen years of age, performed, as his historian relates, wonders in the meadows of Ainay, at Lyons, before King Charles VIII., "in leaping on his



Fig. 74.—A Knight entering the Lists. (From a Miniature in the "Tournois du Roi René.")

charger," and by his management of it creating a favourable impression of his merits. This will suffice to show the estimation in which horsemanship was held. No one was regarded as a valiant knight until he had proved his prowess in jousts and tournaments (Fig. 74) in the rank of squire. Although his functions were essentially those of serving, a squire, who ranked higher than a page, was to the knight rather an auxiliary and a companion than a servant. It was his duty to carry the arms of the knight, to take charge of his table, his house, and his horses. On the field of battle he remained in his rear, ready to defend him, to lift him up if he were overthrown, and to provide him, when necessary, with another horse or other arms. He

guarded the prisoners captured by the knight, and occasionally fought for him at his side.

The principal sign distinguishing knights from squires consisted in the material of which their spurs were made; these were of gold for the former, of silver for the latter. It is well known that, at the disastrous battle of Courtray, the Flemish collected four thousand pairs of gold spurs, after the action, from the slain; consequently, four thousand knights of the army of Philip the Fair had fallen.

In order to *win his spurs* (of gold)—an expression become proverbial—it was indispensable that one who aspired to the honour should perform some valiant deed, proving him worthy of being "dubbed" a knight. The ceremony of admission commenced by presenting the spurs; and whosoever conferred the order of chivalry, were he king or prince, condescended to put on and fasten the spurs for the recipient. In pursuance of the same principle, when a knight, having committed a fault or any cowardly act, had incurred blame or correction, it was by hacking off or changing his spurs that his degradation commenced. For a slight offence a herald substituted silver spurs for those of gold, which lowered a knight to the grade of squire. But in a case of "forfeiture," as it was termed, an executioner or a cook cut off the straps of his spurs, or they were struck off on a dunghill with an axe.

The privilege of wearing spurs was regarded as a mark of independence and authority; so that when a noble tendered faith and homage to his sovereign, he was obliged to take off his spurs in token of vassalage. In 816, ere chivalry had been instituted, an assembly of lords and bishops prohibited ecclesiastics from adopting the profane fashion of wearing spurs then prevailing among the higher classes of the clergy.

The use of the spur appears to date from the most ancient times. The origin of the word has been much disputed. From the time of Louis le Débonnaire it was called *spuors*, which has become *sporen* in Germany, *sperane* in Italian, *spur* in English, *éperon* in French. The Latins called it *calcar* (which originally signified cock's spur), doubtless from the form first given to the spur. That form has strangely varied during centuries. The oldest known shape is that of the spur found in the tomb of Queen Brunehaut, who died in 613, and which is simply like a skewer. This seems to have long continued to be the form; but, from the commencement of the thirteenth to the end of the sixteenth century, the spur is seen in the form of a rose, or of a star with a turning rowel, and was mostly fashioned in a very rich and delicate manner. At the period when horses were clad in steel or leather, the spurs were necessarily very long, in order to reach the animal's flanks (Figs. 75 and 76). The spurs of Godfrey of Bouillon, which have been preserved (their authenticity has been questioned, however), are so shaped. In

the reign of Charles VII. the young nobles wore, rather for show than for use, spurs the rowel of which was as large as the hand, and fixed at the end of a metal stem half a foot long.

If, therefore, from time immemorial every mounted horse "felt the spur," there was at least a period when every sort of spur could not be indiscriminately applied to the flanks of each individual of the equine race. "There are," says Brunetto Latini, a writer of the thirteenth century, in his "Treasury of all Things"—a sort of encyclopædia of the age—"there are horses of several kinds: chargers, or tall horses, for the combat, whence the expression, 'mounting the high horse;' others, for gentle exercise, use palfreys, which

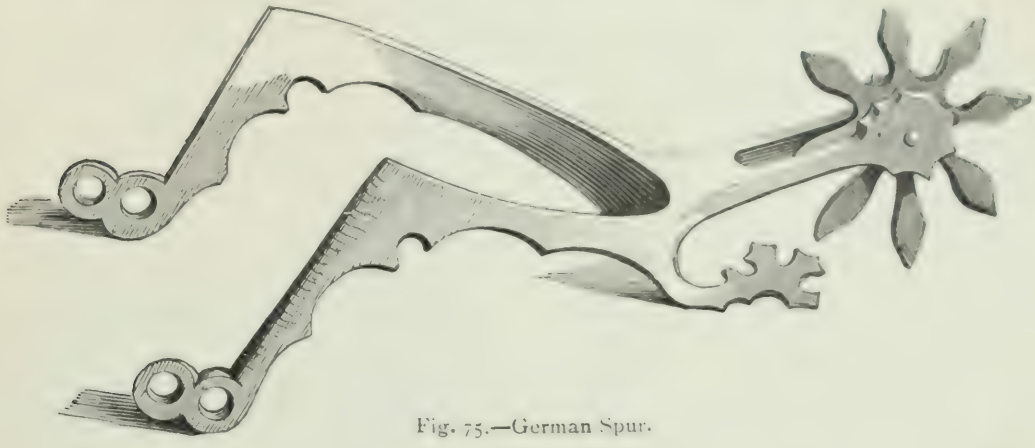


Fig. 75.—German Spur.

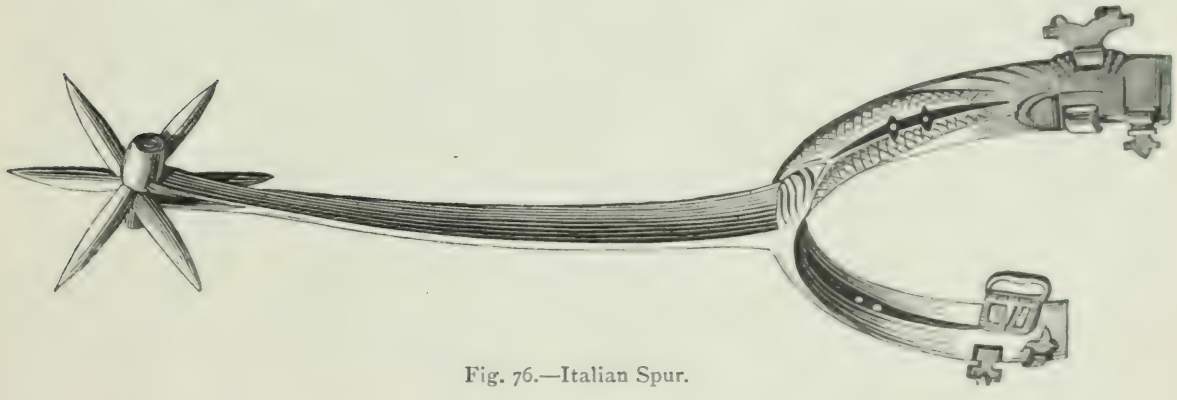


Fig. 76.—Italian Spur.

were also called amblers and hackneys; others employ pack-horses, *courtauts* (cropped horses), to carry a load (*somme*)." *Somme* here signifies a burden, and this, which we now call baggage, consisted of spare arms and hauberk, which a knight was careful to take with him when he went to the wars. Mares and pack-horses were reserved for agriculture and other field purposes; and it was clearly on that account that a knight was not allowed to ride them. To make a knight ride upon a mare was, like the loss of his spurs, one of the most degrading punishments that could be inflicted on him, and thenceforth "any one who regarded his own honour would no more have touched that disgraced knight than a leper."

The horses of French knights were without ears or mane; those of the

Germans without tails. According to Carrion-Nisas, the armour of the horse, and the style in which it was caparisoned, were the cause of these mutilations. We have elsewhere remarked that if the men were cased in steel their horses were not less heavily cuirassed (Fig. 77). The entire armour and appoint-

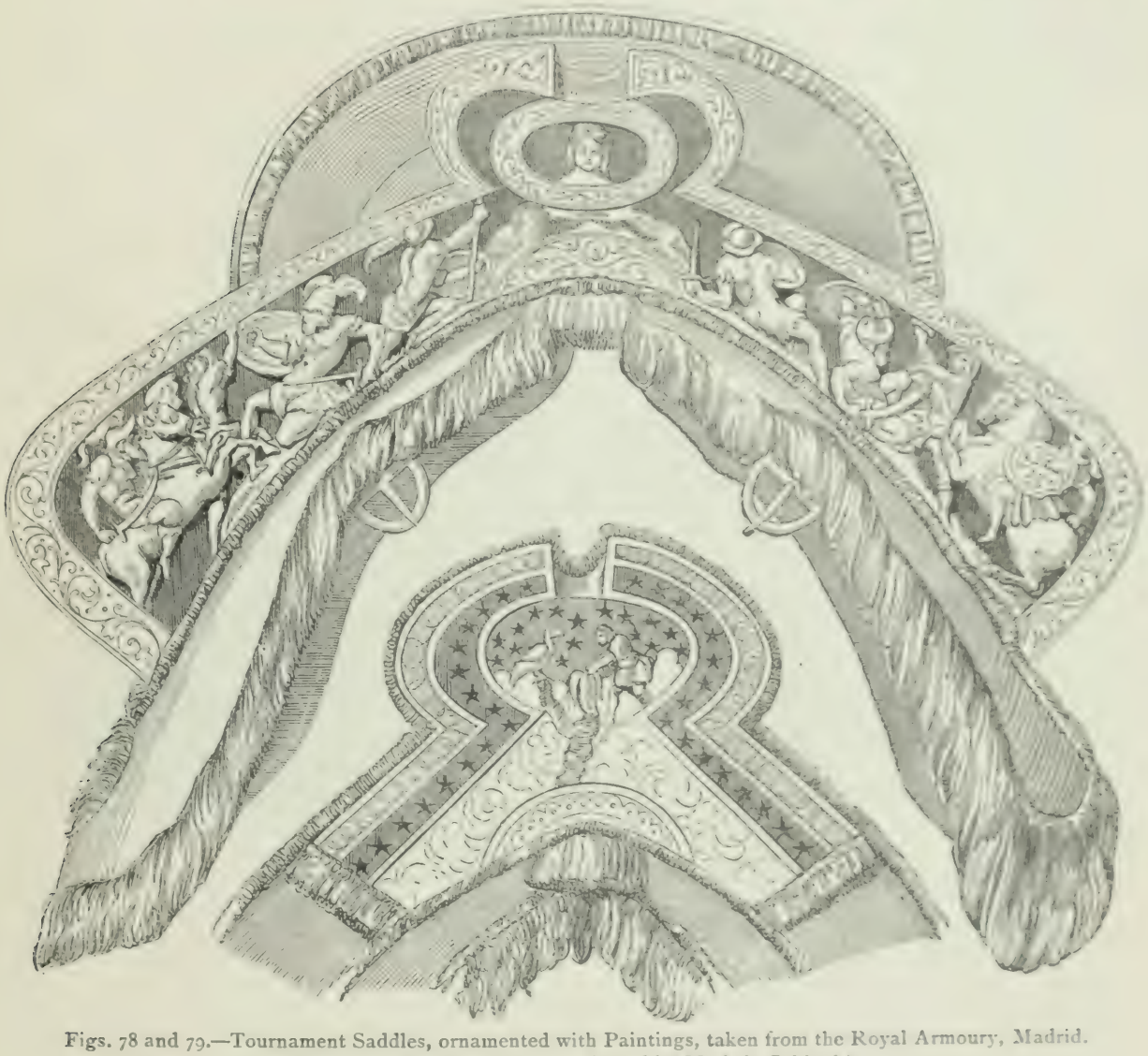


Fig. 77.—A Knight armed and mounted. (Artillery Museum, Paris.)

ments of a horse were called the harness; the plates of steel or leather (for leather also was often used) were called *bardes*. We find enumerated, not only the articles of which the harness consisted—*chanfrein, nasal, flancois*, &c.—but examples are cited to denote the sumptuousness of this equipment of the horse. We need not, however, dwell longer here on this subject, which

belongs more properly to the chapter on arms; but a few words must be said regarding the saddle, which is, if we may use the expression, an implement of horsemanship, and not a part of the armour.

The use of saddles seems to have been unknown in early times, and never to have been introduced among certain nations which, by the way, were most famous in the art of training the horse and making him serviceable. The Thessalonians and the Numidians rode on the bare back, without



Figs. 78 and 79.—Tournament Saddles, ornamented with Paintings, taken from the Royal Armoury, Madrid. Sixteenth Century. (Communicated by M. Ach. Jubinal.)

saddle or stirrups, seated firmly on the horse simply by the pressure of the knees and the calf of the legs—a position which is still that of the boldest riders in the East and in Africa. Hippocrates has ascribed the common and severe diseases of the hips and legs which afflicted the Scythians to the rider's want of support on horseback. Galen makes the same remark regarding the Roman legions, who only took to the saddle about the year 340 of the Christian era. The Gauls and Franks used neither saddles nor stirrups; but when steel armour was adopted, it would have been impossible

for knights to preserve an equilibrium without the aid of a saddle, or to sustain the slightest shock to which they were exposed, as armour rendered them in a manner rigid, or with little flexibility, on their large horses.

They therefore had recourse to a high, or rather a deep, saddle, closely adhering to the thighs and loins, with large stirrups serving as supports to the feet. The several parts of the armour being splendidly ornamented, it followed that the saddles, which also were exposed to view, were no more neglected than other ornaments of the horse. Engraved and chased, they were also gilt and painted, and helped to distinguish, by their "devices," the warrior cased in his steel covering (Figs. 78 to 81).

As to stirrups, of which there certainly is no trace among the Greeks or the Romans, it may be said they were coeval with the invention of saddles.



Fig. 80.—The Caparison of the Horse of Isabella the Catholic. (Communicated by M. Ach. Jubinal.)

They made their appearance in the earliest days of the Merovingian dynasty; and if we accept the German etymology which the learned have offered (*streben*, to support one's self), the name and the object was introduced by the Franks into Gaul. However that may be, they were no longer dispensed with, especially in war, and when the weight of armour rendered their use necessary. They were of course very large, very massive, and very clumsy in the days of chivalry. When they diminished in size and weight they were wrought with more care, and became objects of art, charged with ingenious ornaments, and embellished with engraving, chasing, and gilding.

In accordance with the opinion held by M. de la Varenne, we have already ascribed the disuse of private carriages to the contempt with which the Franks regarded a mode of conveyance deemed by them to be effeminate.

But, following the same author, we must observe that a reason might also be discovered in the wretched condition into which, after the decline of the Romans, the magnificent roads formed by them in all their conquered provinces had fallen. In towns, moreover, the streets, narrow, crooked, and with no regular direction, were very frequently so many holes and quagmires. Philip Augustus I. had some of the streets of Paris paved. The princes and the nobles who, as Molière makes Mascarille say, feared "to leave the impression of their shoes in mud," and could not without difficulty drive about the towns in carriages, consequently had recourse to horses and mules.



Fig. 81.—Saddle-cloth. Sixteenth Century.

The ladies made use of them also, riding on a pillion behind the horseman, when not carried in litters.

In the thirteenth century chariots reappeared; but the fashion did not long prevail, for Philip the Fair discouraged them, in one of the clauses of his sumptuary ordinance of 1294, by declaring that "no citizen may have a chariot."

The litter continued to be held in repute for processions; but queens frequently rode on horseback. Isabella of Bavaria rode on a beautiful palfrey, with her ladies and her maids also on horseback, on the occasion of

her entering Paris to espouse Charles VI. And when Mary of England, who went to be married to Louis XII., made her entry into Abbeville, she also, as Robert de la Marck relates, was mounted on a palfrey, as were most of her ladies, "and the remainder in chariots; and the king, riding a large, prancing bay horse, came to receive his bride, with all the gentlemen of his household and of his guard on horseback." The meeting of Henry VIII. and Francis I. in the Field of the Cloth of Gold, presented the most beautiful display that had ever been seen of caparisoned horses, decorated and furnished with unprecedented richness (Fig. 82).

Charles V., in consequence of frequent attacks of gout, was soon compelled to renounce riding. When he went into the country, or on a journey,



Fig. 82.—Henry VIII. in the Camp of the Field of the Cloth of Gold (1520). From the Bas-reliefs of the Hôtel of the Bourg Herolde at Rouen.

he was generally followed by a litter and a chair. Mules bore the litter, in which he could recline, while bearers carried the chair, which was provided with a movable back; its four uprights could be fitted with a sort of canopy of canvas or leather.

In 1457 the ambassadors of Ladislaus V., King of Hungary, presented to Marie of Anjou, Queen of France, a chariot which excited the admiration of the whole court and the inhabitants of Paris, "because," as the historian of the time says, "it was *branlant* (suspended), and very rich."

It is difficult to reconcile the inference to be drawn from the ordinance of Philip the Fair with the assertion of many historians, that coaches first

appeared in France only in the time of Francis I. The point is still doubtful. Nevertheless, one may suppose historians to mean that coaches, instead of being the only vehicles employed in Paris in the time of Francis I., were but chariots of a grander and more gorgeous description than any seen before that time. But we know for certain that, during the Middle Ages, the horse and the mule were generally ridden by everybody, by citizens and by nobles, by women and by men. The horse-blocks fixed in the streets—too narrow evidently, if not for one carriage, at least for two to pass each other—and the rings fastened on doors, sufficiently denote that it was so. The mule was especially ridden by sedate men, such as magistrates and doctors, who had to amble through the towns. "To take care of the

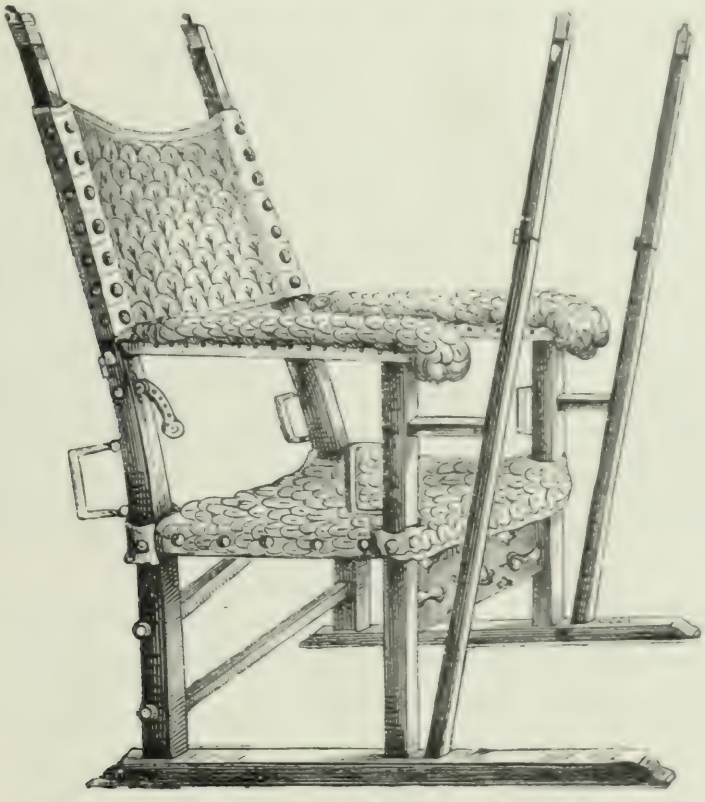


Fig. 83.—Sedan-chair of Charles V. (Royal Armoury, Madrid.)

mule," a proverbial expression signifying to wait impatiently, is derived from the custom of lawyers' servants remaining in the court of the Palace to take charge of the riding-horses or mules belonging to their masters.

According to Sauval, the two first coaches seen in Paris belonged, one to Queen Claude, the first wife of Francis I., and the other to Diane de Poitiers, his mistress.

The fashion was soon followed; so much so, that even where the sumptuary laws were still regarded as efficient, we find parliament entreating Charles IX. to prohibit the circulation of coaches (*coches*) through the town. The magistrates continued, until the commencement of the seventeenth century, to attend at the courts of justice on their

mules. Christopher de Thou, father of the celebrated historian, and first President of Parliament, was the first who came thither in his carriage; but only because he suffered from gout, for his wife continued to ride on horseback, seated pillion-fashion behind a servant.

Henry IV. had only one carriage. "I shall be unable to go and see you," he one day wrote to Sully, "for my wife has my coach (*coche*)." These coaches were neither elegant nor convenient. For doors they were provided with leathern aprons, which were drawn or opened for entrance or exit, with similar curtains to protect against the rain or the sun.

Marshal Bassompierre, in the time of Louis XIII., had a glass coach made for him, which was regarded as a real marvel. It originated the impulse which has led to the productive era of modern coach-building.

Formerly there was in Paris, as appears from numerous documents, several corporations representing the saddlers' trade. First came the *selliers-bourreliers*, and the *selliers-lormiers-carrossiers*. The privileges of the first secured to them specially the manufacture of saddles and harness (collars and other articles for draught). The second made also carriages, bridles, reins, &c. Another very ancient corporation was that of the *lormiers-éperonniers*—"artisans," says the Glossary of Jean de Garlande, "whom the military nobles greatly patronised, because they manufactured silvered and gilt spurs, metal breastplates for their horses, and well-executed bits." There were also *chapuiseurs*, who made saddle-bows and pack-frames for the beasts of burden, which were mostly manufactured of alder-wood.

The *blazonniers* and *cuireurs* then covered with leather the packs and the saddles prepared by the *chapuiseurs;* and, finally, saddle-painters were employed to ornament them in compliance with fashion, and according to the laws of heraldry.

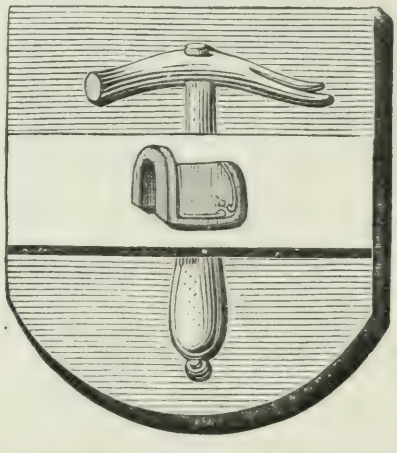


Fig. 84.—Banner of the Corporation of the Saddlers of Tonnerre.

GOLD AND SILVER WORK.

Its Antiquity.—The Treasure of Guarrazar.—The Merovingian and Carlovingian Periods.—Ecclesiastical Jewellery.—Pre-eminence of the Byzantine Goldsmiths.—Progress of the Art consequent on the Crusades.—The Gold and Enamels of Limoges.—Jewellery ceases to be restricted to Purposes of Religion.—Transparent Enamels.—Jean of Pisa, Agnolo of Sienna, Ghiberti.—Great Painters and Sculptors from the Goldsmiths' Workshops.—Benvenuto Cellini.—The Goldsmiths of Paris.



OUR remarks upon furniture, we were compelled to trespass upon the domain which we now again approach; for, having to trace the history of secular and religious luxury, we cannot but frequently encounter the goldsmiths and their splendid works. It will thus happen more than once that we shall have to recur briefly to details given in preceding chapters.

It is known that in old times, even the most remote, the goldsmith's art flourished. There is scarcely any ancient narrative which does not allude to jewels; and every day the discovery of precious objects, found in ruins and in tombs, still attests the high state of perfection the art of gold and silver work had attained among races long since extinct.

The Gauls, when under Roman dominion, applied themselves successfully to the business of the gold-worker. We may again say that the triumph of the Christian religion, under Constantine the Great, while encouraging the interior decoration of places of worship, added a fresh impulse to the development of this beautiful art.

The popes succeeding St. Sylvester (who had stimulated the liberality of Constantine) continued to accumulate in the churches at Rome the most costly and massive articles of gold-work. Symmachus (493 to 514) alone, according to a calculation made by Seroux d'Agincourt, enriched the treasures of the basilicas to the amount of 130 pounds weight of gold, and 1,700 of silver, forming the material of objects most finely wrought. It was from the very court of the Greek emperors that the examples of this magnificence were derived; for we hear St. John Chrysostom

exclaiming, "All our admiration is at present reserved for the goldsmiths and the weavers;" and it is well known that in consequence of his bold indiscretion in rebuking the extravagance of the Empress Eudoxia, this eloquent Father of the Church expiated in exile and persecutions his ardent zeal and his sincerity.

The brilliant specimens of the gold-work of the Visigoths, which, in 1858, were exhumed in the field of Guarrazar, near Toledo, and were obtained for the Cluny Museum, throw a new light on the monuments of that period. Far from indicating any original style, they afford further proof that the barbarians who came from the North became subjected, in the arts, to Byzantine influence. The most remarkable, not only in its dimensions and extreme richness, but in the peculiarity of its ornaments, is a votive crown, intended to be hung, according to the custom of those times, in a sacred place—that of Recesvinthe, who reigned over the Goths of Spain from 653 to 672. It is composed of a large fillet, jointed, and

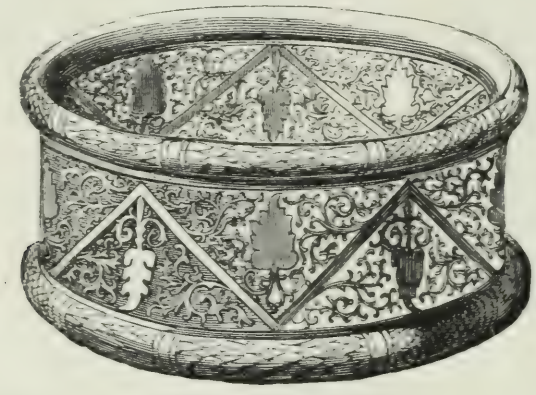


Fig. 85.—Gallic Bracelet, rom a Cabinet of Antiquities. (Nat. Library, Paris.)

formed of a double plate of the finest gold. Thirty uncut sapphires and as many pearls, regularly alternating, arranged in three rows and in quincunxes, are seen on its exterior circle. Chased ornaments occupy the spaces between the stones. The votive crown of King Suintila, which we here reproduce (Fig. 86), is fully as rich, and about thirty years older. It is of massive gold, ornamented with sapphires and pearls arranged in rose-pattern, and set off by two borders similarly set with delicate stones. But the originality of this precious gem consists in the letters hanging as pendants from its lower border. These letters, open-worked, are filled with small pieces of red glass set in gold; their combination presents the following inscription:—"*Suintilanus Rex offeret*" (offering of the King Suintila). Each of them is suspended from the fillet by a chain with double links, sustaining a pendant of violet sapphire, pear-shaped. Finally, the crown is suspended by four chains attached to a circular top of rock-crystal.

"Five of the crowns so fortunately discovered at Guarrazar," says M. de Lasteyrie, "have crosses. These, attached by a chain to the same circular top, were evidently intended to remain suspended across the circle of the crown." The cross belonging to the crown of Recesvinthe is by far the richest; eight large pearls and six sapphires, all mounted in open-work, adorn the front. The four other crosses are of the form which in heraldry is called *croix patée*; but they differ in size and in the ornaments with which they are enriched.



Fig. 86.—Votive Crown of Suintila, King of the Visigoths from 621 to 631. (Royal Armoury, Madrid.)

We have already stated that the kings and grandees of the Merovingian period displayed in their plate and in some of their state furniture a richness of gold-work the profuseness of which was ordinarily opposed to good taste. We have seen at his work the celebrated Saint Eloi, bishop-goldsmith; and we have mentioned not only his remarkable productions, but also the enduring influence he exercised over a whole historical period of art. Finally, we have observed that Charlemagne—whose object seems to have been not only to imitate Constantine, but to surpass him—endowed the churches magnificently with works of art, without prejudice to the splendour of his palaces.

If we may believe tradition, the loss of most of the beautiful objects in gold belonging to that monarch may have been owing to the circumstance that they were buried with him; and that the emperors of Germany, his successors, may not have scrupled to appropriate them, some rare specimens, particularly his diadem and sword, being still preserved in the Museum of Vienna (Figs. 87 and 88).

Ecclesiastical display, notably extinct during the period of trouble and suffering through which the Church passed in the seventh and eighth centuries, and to which the power of Charlemagne was to put an end,

manifested itself in an extraordinary degree from that time. For example, it was calculated that under Leo III., who occupied the pontifical chair from 795 to 816, the weight of plate given by the Pope to enrich the churches amounted to no less than 1,075 pounds of gold and 24,744 pounds of silver!

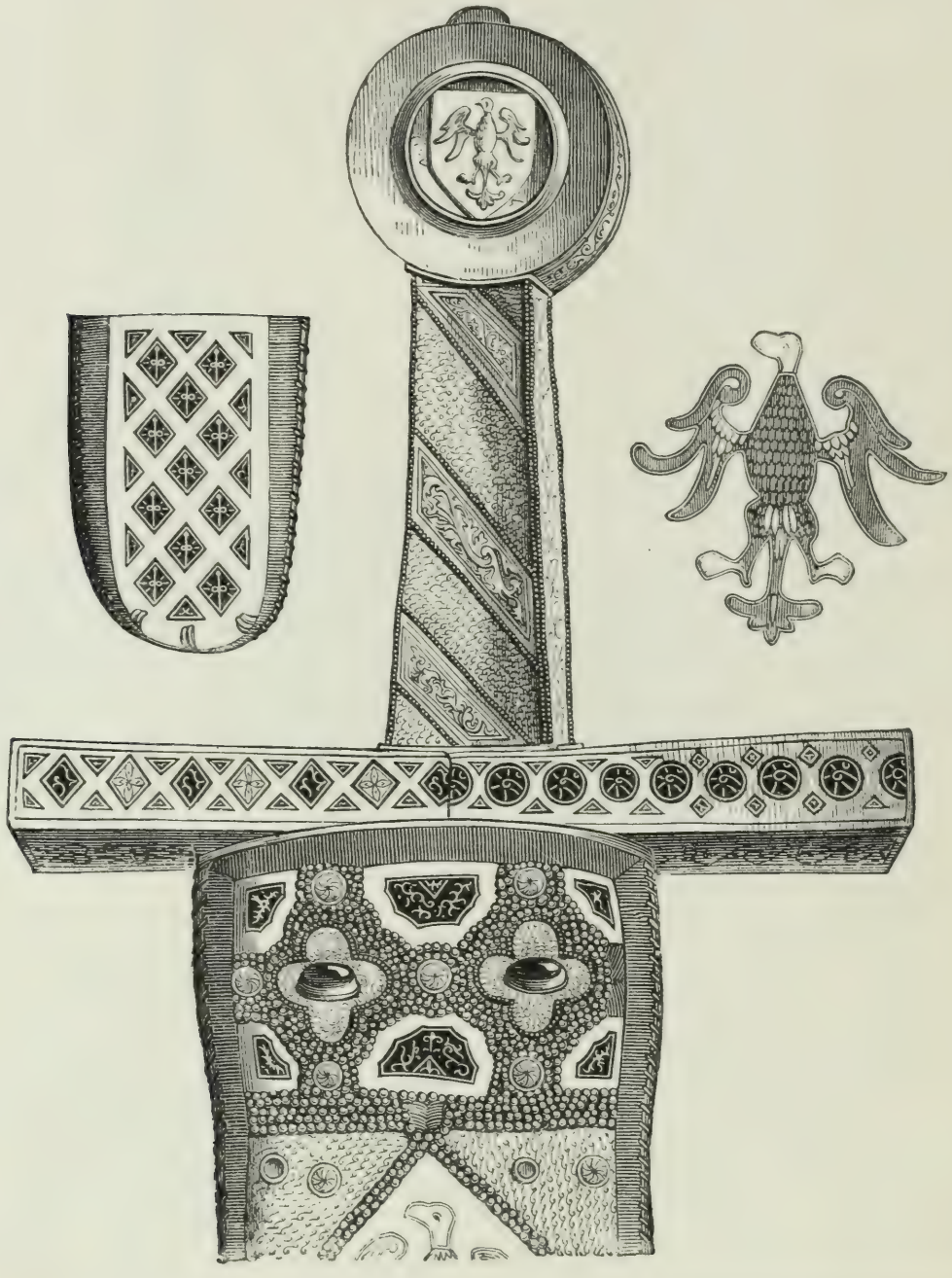


Fig. 87.—The Sword of Charlemange. Preserved in the Imperial Treasury at Vienna.

To that period belongs the famous gold altar of the basilica of St. Ambrose of Milan, executed in 835, by order of Archbishop Angilbert, by Volvinius, which has come down to our time in spite of its immense intrinsic value. "All four sides of this monument," says M. Labarte, "are of extreme richness. The front, entirely of gold, is divided into three panels by a

border of enamel. The centre panel represents a cross of four equal projections, formed by fillets of ornaments in enamel, alternating with precious stones uncut but polished. Christ is seated in the centre of the cross. The symbols of the Evangelists occupy its branches. Three of the Apostles are placed in each angle. All these figures are in relief. The right and left panels contain each six bas-reliefs, the subjects of which are taken from the life of Christ; they are encircled by borders of enamels and precious stones alternately disposed. The two sides in silver relieved with gold exhibit very rich crosses, treated in the same style as the borders. The back, which is also of silver relieved with gold, is likewise divided into three large panels;



Fig. 88.—Diadem of Charlemagne. Preserved in the Imperial Treasury at Vienna.

that in the centre contains four medallions, and each of the other six bas-reliefs, of which the life of St. Ambrose supplied the subjects. In one of the medallions of the centre panel is seen St. Ambrose receiving the gold altar from the hands of Archbishop Angilbert; in the other, St. Ambrose is giving his benediction to Volvinius, the master goldsmith (*magister faber*), as he is designated in the inscription transmitting to us the name of the author of this work, of which no description can give an exact idea."

It was not Italy alone which possessed skilful goldsmiths, and encouraged them. We have in particular, among other enlightened and active supporters of ecclesiastical gold-work, a succession of the bishops of Auxerre.

to whom must be added Hincmar, bishop of Rheims, who caused a splendid shrine to be made for the relics of the illustrious patron of his church. It was cased in plates of silver, and statues of twelve bishops adorned its borders.

But, notwithstanding all its artistic magnificence, the jewellery of the West was only a reflex of the wonders produced at the same epoch by the goldsmiths of the East, or Byzantines.

One of the most curious specimens of Byzantine art, preserved in Russia, is a gold reliquary lined with a plate of silver, in the centre of which is an embossed representation of the Crucifixion. Above the head, on a gilt nimbus, is an inscription in Greek, "Jesus Christ, King of Glory." This treasure, remarkable for its extreme finish, is covered with a mosaic of precious stones of different colours, in partitions of gold; the cross being quartered in enamel, with silver filigree. At the back the names of the archimandrite Nicolos are engraved. It is a work of the tenth century, and was found in the Iberian monastery on Mount Athos.

If few specimens of jewellery have come down to us of a date prior to the eleventh century, this may be accounted for not merely by their intrinsic value having indicated them to the uncivilised as fit objects of plunder during the invasions which took place after the reign of Charlemagne, but also, as we have elsewhere remarked, by the re-introduction of church furniture, which was in some measure a necessary result of renovated architecture. It was right to adapt the style of plate to that of the edifice it was to adorn. The forms which were then employed for various objects of church-service showed the influence of the severe style derived from the original Byzantine type; the latter, moreover, explained itself by the repute, especially in metallurgy, enjoyed by the city of Constantine, to which the East generally had recourse when taking in hand any work of importance.

The *German* school particularly would acquire a Byzantine character, owing to the marriage of the Emperor Otho II. with the Greek princess Theophania (972)—an alliance which naturally bound the two empires in closer ties, and attracted a considerable number of artists and artisans to Germany from the East. Of the works of that period still in existence, one of the most remarkable is the rich gold cover of the book of the Gospels, now in the Royal Library, Munich, on which are executed in the embossed style various bas-reliefs of great delicacy, and designed with the purity at that time distinguishing the Greek school.

The Emperor Henry II. was therefore welcomed (*bien-venu*), and, if one may say so, well served by the condition of art in Germany, when, elevated to the throne in 1002, and inspired by ardent piety, he sought by princely liberality to the churches to surpass even Constantine and Charlemagne. It

is to Henry that the Cathedral of Basle owes the decorations of the altar, to which none can be compared for richness, except that of Milan, to which, however, it bears no resemblance in its style, which has lost every trace of the antique, and is a clearly pronounced type of the art which the Middle Ages were to create as their own. It is right to mention also the crowns of the emperor and of his wife, now preserved in the Treasury of the King of



Fig. 89.—Byzantine Reliquary, in Enamel, brought from Mount Athos. Tenth Century.
(Collection of M. Sebastianof.)

Bavaria. Both are in six jointed parts, making a circle; the former bears figures of winged angels; the other four leaves designed with correctness and grace, and executed with fine skill. "Moreover," says M. Labarte, "the taste for jewellery was then generally diffused throughout Germany; and many prelates followed the example set by the emperor. Willigis, the first Archbishop of Mayence, may be cited: he endowed his church with a crucifix weighing 600 pounds, the several parts of which were adjusted with such art that each could be detached at the joints; and Bernward, Bishop of

Hildesheim, himself a celebrated goldsmith like St. Eloi, and the reputed maker of a crucifix enriched with precious stones and filigrees, as well as of two magnificent candelabra, which still constitute a portion of the treasures of the church whereof he was the pastor."

About the same period—that is, in the early days of the eleventh century—a monk of Dreux, named Odorain, who had made himself famous in France by his works in precious metals, executed a large number of objects for King Robert, intended for the churches the monarch had founded.

It has been remarked in the preceding chapter, that the Crusades gave a great impulse to the goldsmith's art in Europe, in consequence of the demand for shrines and reliquaries intended for the reception of the venerated

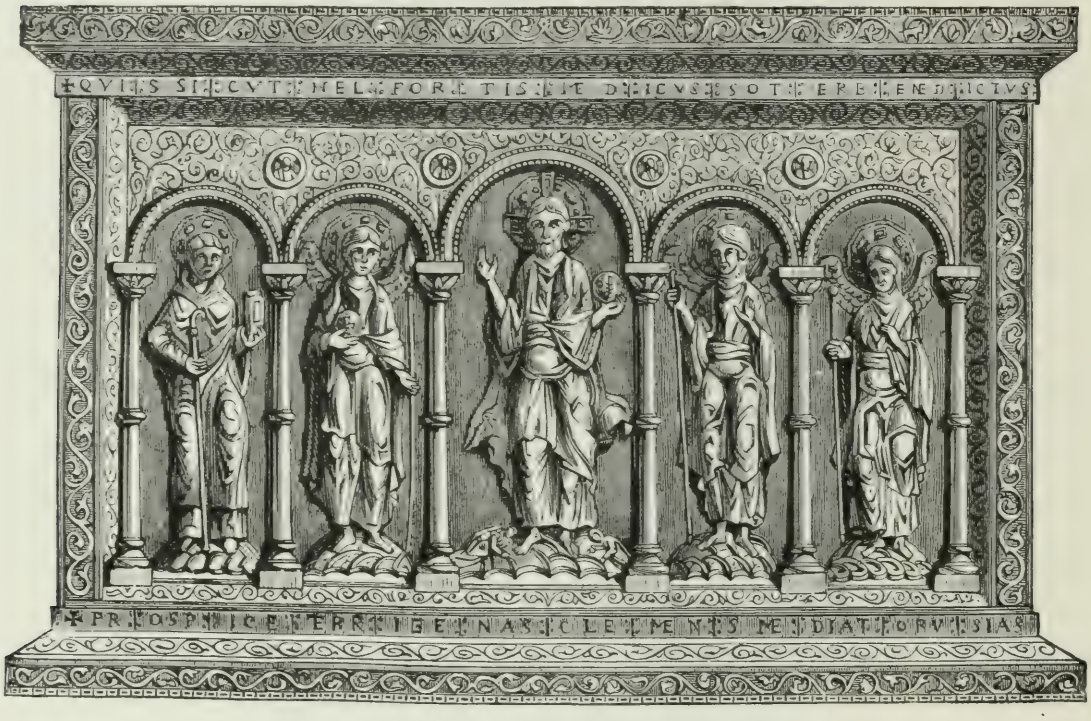


Fig. 90.—Altar of Gold, presented to the ancient Cathedral of Basle by the Emperor Henry II. Now in the Cluny Museum.

remains of saints which the soldiers of the faith brought back from their distant expeditions (Figs. 91 and 92). The offerings of consecrated vessels and of altar-fronts were also multiplied. The Holy Scriptures were encased in splendid works produced by the goldsmiths. To speak truly, had it not been for the essentially religious direction which, at that period, certain departments of luxury acquired by the Crusaders in the East had taken, we might perhaps have seen the arts perish in the first burst of their revival.

It is chiefly to the minister of Louis le Gros, Suger, Abbot of Saint-Denis, who died in 1152, that the honour of this consecration of arts is due, for he distinctly proclaimed himself their protector; he endeavoured to

render legitimate their position in the State, by opposing their pious aims to the too exclusive censures of St. Bernard and his disciples.

Conjointly with the powerful abbot, there was deserving of special mention a simple monk, Theophilus, an eminent artist who wrote in Latin a description of the Industrial Arts of his time (*Diversarum Artium Schedula*), and devoted seventy-nine chapters of his book to that of the goldsmith. This valuable treatise shows us, in the most unmistakable manner, that the goldsmiths of the twelfth century must have possessed a comprehensiveness



Fig. 91.—Enamelled Shrine, in Limoges Work of the Twelfth Century. (Cluny Museum.)

of knowledge and manipulation, the mere enumeration of which surprises us the more now that we see industry everywhere tending to an almost infinite division of labour. At that time the goldsmith was required to be at once modeller, sculptor, smelter, enameller, jewel-mounter, and inlay worker. He had to cast his own models in wax, as well as to labour with his hammer or embellish with his graver; he had to make the plate for the metropolitan churches, and to produce, by the ordinary process of punching, the copper open-work for the *libri pauperum*, &c.

The treasury of the Abbey of Saint-Denis still possessed at the time of the Revolution several *chefs-d'œuvre* produced by the artists whose processes are described by Theophilus; especially the rich mounting of a cup of Oriental agate, bearing the name of Suger, which he is believed to have used for the mass; and the mounting of an ancient sardonyx vase, known as the cup of the Ptolemies, which Charles the Simple had given to the abbey. Having been deposited, 1793, in the Cabinet of Medals, Paris, the mounting of the cup of the Ptolemies and the chalice of Suger remained there until they were stolen in 1804.

Among the examples of that period still existing, and which, conditionally, every one is permitted to inspect, we may distinguish, with M. Labarte,—in addition to "great crown of lights" suspended, under

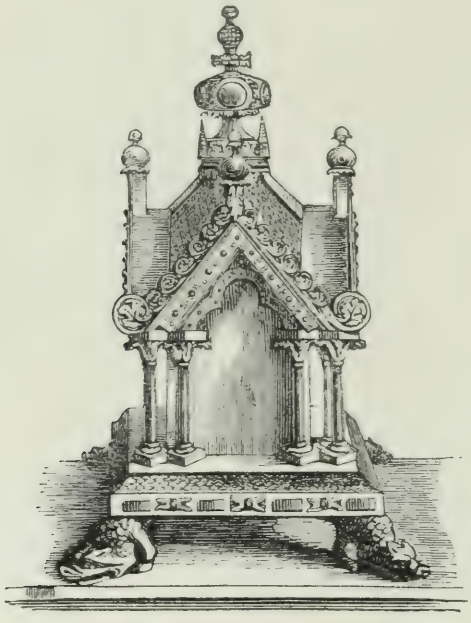


Fig. 92.—Shrine in Copper Gilt. (End of the Twelfth Century.)

the cupola in the cathedral of Aix-la-Chapelle, and the magnificent shrine into which Frederick I. collected the bones of Charlemagne,—in the Louvre: a vase of rock-crystal mounted in gold and embellished with gems, presented to Louis VII. by his wife Eleanora; in the Cluny Museum: several candelabra; in the Imperial Library in Paris: the covering of a Latin manuscript numbered 622; a cup of agate onyx (Fig. 93), bordered with a belt of precious stones raised on a groundwork of filigree; and the beautiful gold chalice of St. Remy (Fig. 94), which after having appeared in the Cabinet of Antiquities, was restored in 1861 to the treasury of the church of Notre-Dame, Rheims.

Severe forms and an elevated style were the characteristics of the jewelled works of the eleventh and twelfth centuries; and, for the principal elements of accessory embellishment, we most frequently see pearls, precious stones,

with enamelled divisions which, according to the minute description of Theophilus, are only delicate mosaics whose various coloured segments are separated by plates of gold.

In the days of St. Louis, a period of active and generous piety, there was a remarkable increase in the number and the splendour of the gifts of jewellery to the churches. For instance, it was then that Bonnard, Parisian goldsmith, assisted by the ablest artisans, devoted two years to the manufacture of the shrine of St. Geneviève, on which he expended one hundred and ninety-three marks of silver and seven and a half marks of gold, the mark weighing eight ounces. The shrine, consecrated in 1212, was in the form of a little church, with statuettes and bas-reliefs enriched with precious stones. It was deposited in the French mint in 1793; but the spoil realised only twenty-three thousand eight hundred and thirty livres. Half a century



Fig. 93.—Drinking Cup of Agate; from the Treasury of the Abbey of Saint-Denis. (Cabinet of Antiquities, Nat. Library, Paris.)

earlier, the most celebrated German goldsmiths were engaged during seventeen years upon the most famous reliquary in silver-gilt, which the cathedral at Aix-la-Chapelle still retains; it was fabricated from the gifts deposited in the cathedral poor-box in that space of time, an edict of the Emperor Barbarossa having appropriated all the offerings to that object "so long as it remained unfinished."

Moreover, that period, which may be regarded as the zenith of ecclesiastical goldsmithery, is also that wherein occurred the change which was to introduce the same lavishness into domestic life. But before entering upon that new phase, we ought to mention the splendidly enamelled gold-work of Limoges, which was greatly celebrated for several centuries. From the Gallo-Roman period Limoges had enjoyed fame for its goldsmiths' work. St. Eloi,

the great goldsmith in the time of the Merovingian kings (Fig. 95), was originally from that country, and he was working under Alban, a goldsmith, and master of the mint at Limoges, when his reputation led to his being called to the court of Clotaire II. The ancient Roman colony had retained its industrial speciality, and during the Middle Ages was remarkable for the

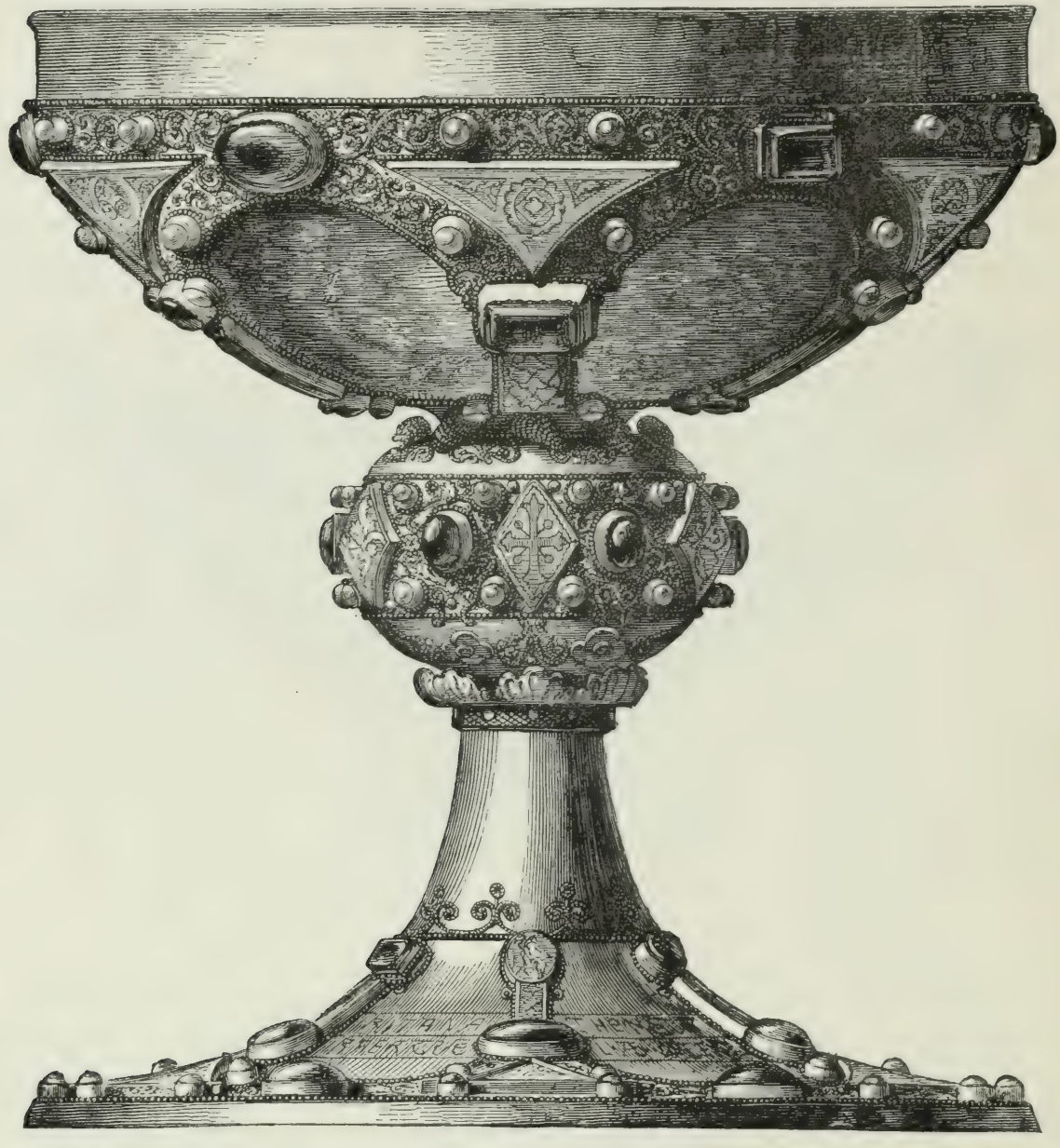


Fig. 94.—Chalice, said to be of St. Remy. (Treasury of the Cathedral of Rheims.)

production of works of a peculiar character, which are supposed to have been fabricated there prior to the third century, if we may judge from a passage in Philostratus, a Greek writer of that period.

This work was in a mixed style, inasmuch as the material forming the ground of the work is copper; and, moreover, the principal effects are due not less to the skill of the enameller than to the talent of the worker in metal,

The process of fabrication is simple enough to describe, but the execution must have been extremely protracted and minute.

"After having prepared and polished a plate of copper," says M. Labarte,

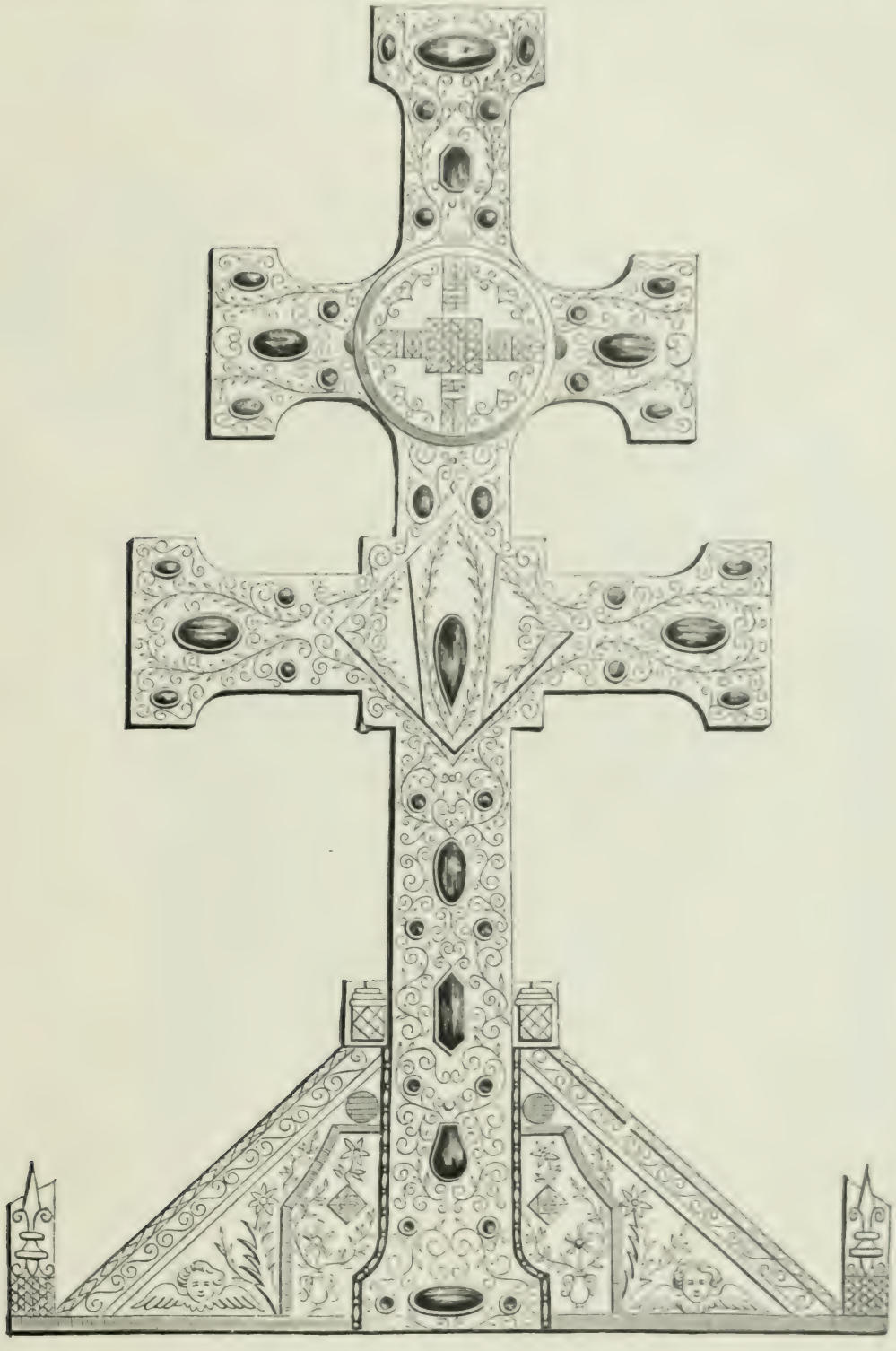


Fig. 95.—Altar Cross, ascribed to St. Eloi.

from whom we take this description, word for word, "the artist marks upon its surface all those parts which have to retain their elevation, and to show in the work when finished, in order to divide one object from another; then with

gouge and burin he cuts away the rest of the surface in order to form the hollows in which the enamel is to be placed. Into these hollows he then lays the materials which are to be vitrified in the oven. This latter operation over, the whole surface is ground and polished, to make it even and to give it lustre. Finally the copper lines are gilt. Down to the twelfth century the copper ground was used only to define contours, but in after times whole figures were left in the copper, and finished with the burin and graver."

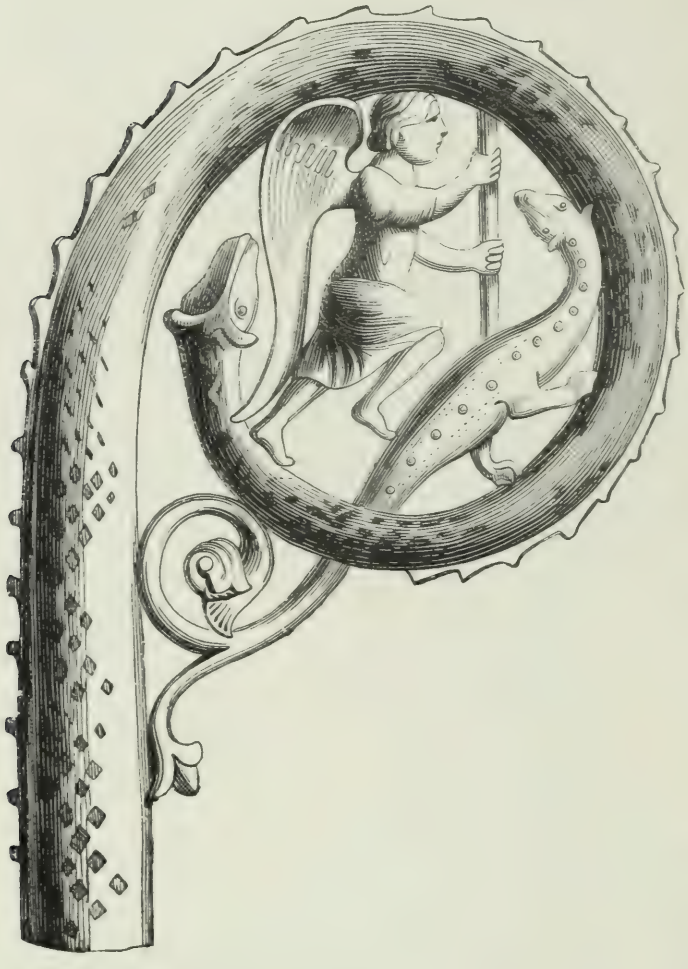


Fig. 96.—An Abbot's Enamelled Crozier, made at Limoges. (Thirteenth Century.)



Fig. 97.—A Bishop's Crozier, apparently of Italian manufacture. (Fourteenth Century. Cathedral of Metz.)

Between *cloisonnés* and *champlevés* enamels, the difference is only in the first arrangement of the divisions to receive the vitrifiable compositions. Making allowances for the influence of fashion, the two styles were held in almost equal esteem. Nevertheless, it seems that the preference ought to be assigned to the goldsmith's art in Limoges, which, at a time when a demand for private reliquaries and collective offerings to the churches arose, had this advantage over others, that it was much less costly, and consequently more accessible

to all classes (Fig. 96). In the present day there is scarcely a museum, or even a private collection, that does not contain some specimen of the ancient Limousine industry.

With the fourteenth century the goldsmiths' art ceases to lavish its splendour exclusively on ecclesiastical decoration. It suddenly became so developed among the laity that King John (of France) desiring, or pre-



Fig. 98.—An Ancient Cameo-setting of the time of Charles V. (Cab. of Ant., Bibl. Nat., Paris.)

tending to desire, to restore it to the exclusive line it had till then retained, prohibited by an ordinance, in 1356, the goldsmiths from fabricating gold or silver plate, vases, or silver jewellery, of more than one mark of gold or silver, excepting for the churches."

But it is possible to issue ordinances in order to have the exclusive advantage of evading them. This is what appears to have then occurred; for, in the inventory of the treasury of Charles V., son and successor of

the king who signed the sumptuary edict of 1356, the value of the various objects of *orfèvrerie* is estimated at no less than nineteen millions. This document, in which the greater number of the articles are described in the minutest detail, would suffice in itself to exhibit a truthful historical view of the art at that period; and, at all events, it affords a striking idea of the artistic progress made, and of the extravagance to which the trade was subservient.

When speaking of domestic furniture, we gave the names and the uses of several articles which were displayed on the tables or sideboards—plate-holders, ewers, urns, goblets, &c.; we also adverted to the numerous and capricious forms they assumed—flowers, animals, grotesque images. We need not, therefore, recur to the matter; but we ought not to overlook the jewellery, of all sorts—insignia, or ornaments of the headdress, gems, clasps, chains, and necklaces, antique cameos (Fig. 98), which appear in the treasury of the King of France.

In treating of ecclesiastical furniture we, moreover, observed that the goldsmith's art, although devoting itself to secular ornaments, nevertheless continued to work marvels in the production of objects for ecclesiastical use; it would be mere repetition to support this assertion by other examples.

But, dismissing those two questions, let a contemporary poet raise a third, which deserves a place here. Eustache Deschamps, who died in 1422, equerry and usher-at-arms to Charles V. and Charles VI., enumerates the jewels and gems which the female nobility of the time aspired to possess. "It was indispensable," he says—

"Aux matrones,
Nobles palais et riches trônes;
Et à celles qui se marient
Qui moult tôt (bientôt) leurs pensers varient,
Elles veulent tenir d'usaige . . .
Vestments d'or, de draps de soye,
Couronne, chapel et courroye
De fin or, espingle d'argent . . .
Puis couvrechiefs à or batus,
A pierres et perles dessus . . .
Encore vois-je que leurs maris,
Quand ils reviennent de Paris,
De Reims, de Rouen et de Troyes,
Leur rapporent gants et courroyes . . .
Tasses d'argent ou gobelets . . .
Bourse de pierreries,
Coulteaux à imagineries,
Espingliers (étuis) taillés à émaux.'

They desired, moreover, and said that they ought to have given to them—

"Pigne (peigne) et miroir d'ivoire . . .
Et l'estui qui soit noble et gent (riche et beau),
Pendu à chaines d'argent;
Heurs (livres de piété) me fault de Notre-Dame,

Qui soient de soutil (délicat) ouvraige,
D'or et d'azur, riches et cointes (jolies),
Bien ordonnés et bien peintes (peintes),
De fin drap d'or très-bien couvertes,
Et quand elles seront ouvertes,
Deux fermaux (agrafes) d'or qui fermeront."

We thus see that, according to the above programme, the jewel-box of a princess, or of a lady of rank, must have been very splendid indeed. Unfortunately for us, the specimens of these female ornaments of the fourteenth and fifteenth centuries are very rare in collections; and one is almost left to imagine their appearance and their richness from the entries in inventories, that chief source of information regarding the times of which the memorials have disappeared.

It is there we see the costliness of the *fermails*, or clasps of cloaks and copes, called also *pectoraux*, because they fasten the garments across



Fig. 99.—Scent-box in Chased Gold. (French Work of the Fifteenth Century.)

the breast; girdles, chaplets, portable reliquaries, and other "little jewels (Fig. 99) *pendants et à pendre*," the fashion of which we have restored under the name of *breloques*, and which represent every variety of object more or less whimsical. We see, for instance, gold clasps representing a peacock, a fleur-de-lis, two hands 'clasped.' This one is embellished with six sapphires, sixty pearls, and other large gems; that one with eighteen rubies, and four emeralds. From a girdle of Charles V., which is made "of scarlet silk adorned with eight gold mountings," are suspended "a knife, scissors, and a pen-knife," ornamented in gold; the trinkets (pendants) represent "a man on horseback, a cock holding a mirror in the form of a trefoil," or a "stag of pearls with enamelled horns"; or, again, a man mounted on a double-headed serpent, "playing on a Saracenic horn." Finally, we remark that in reliquaries a fashion long established was

maintained, which consisted of forming them of a statuette representing a saint (Fig 100), or of a subject that comprised his image, and to which were



Fig. 100.—Reliquary, Silver-gilt, surmounted by a Statuette of the Virgin with the Infant Jesus, representing Jeanne d'Evreux, Queen of France. (Museum of Sovereigns, in the Louvre.)

attached by a small chain, relics inlaid in a little tabernacle of gold or silver preciously wrought.

But now the fifteenth century opens out, and with it a period of tumult. France suddenly beheld her industries paralyzed. Not only were the workshops closed, but prince and nobles were more than once constrained to appropriate the gorgeous decorations of their tables and their collections of gems, to pay and arm warriors under their command, or even to redeem themselves from captivity.

At that time the goldsmith's art flourished in the neighbouring country of Flanders, then quietly submissive to the powerful house of Burgundy, which, with equal taste and liberality, encouraged the art which had installed itself in the principal cities. This was also an epoch of magnificent produc-



Fig. 101.—The Ensign of the Collar of the Goldsmiths of Ghent. (Fifteenth Century.)

tions in that country, but not more than one or two examples remain; these are attributed to Corneille de Bonte, who worked at Ghent, and was generally considered the most skilful goldsmith of his time (Figs. 101 and 102). However that may be, the style of the goldsmith's art of the fifteenth century continued, as in the two or three preceding centuries, conformable to the contemporaneous style of architecture. For instance, the shrine of Saint-Germain-des-Près, which was of that period, had the form of a small Gothic church; and some specimens still existing in Berlin are of the Gothic character, the prevailing style of the edifices of those times. But an influence was making itself felt that was not long in entirely modifying the general aspects of the productions of the trade we are considering. That

transformation must have been promoted by Italy, in the midst of which luxury and opulence prevailed, in spite of intestine troubles and serious contentions with other nations. Genoa, Venice, Florence, Rome, had long

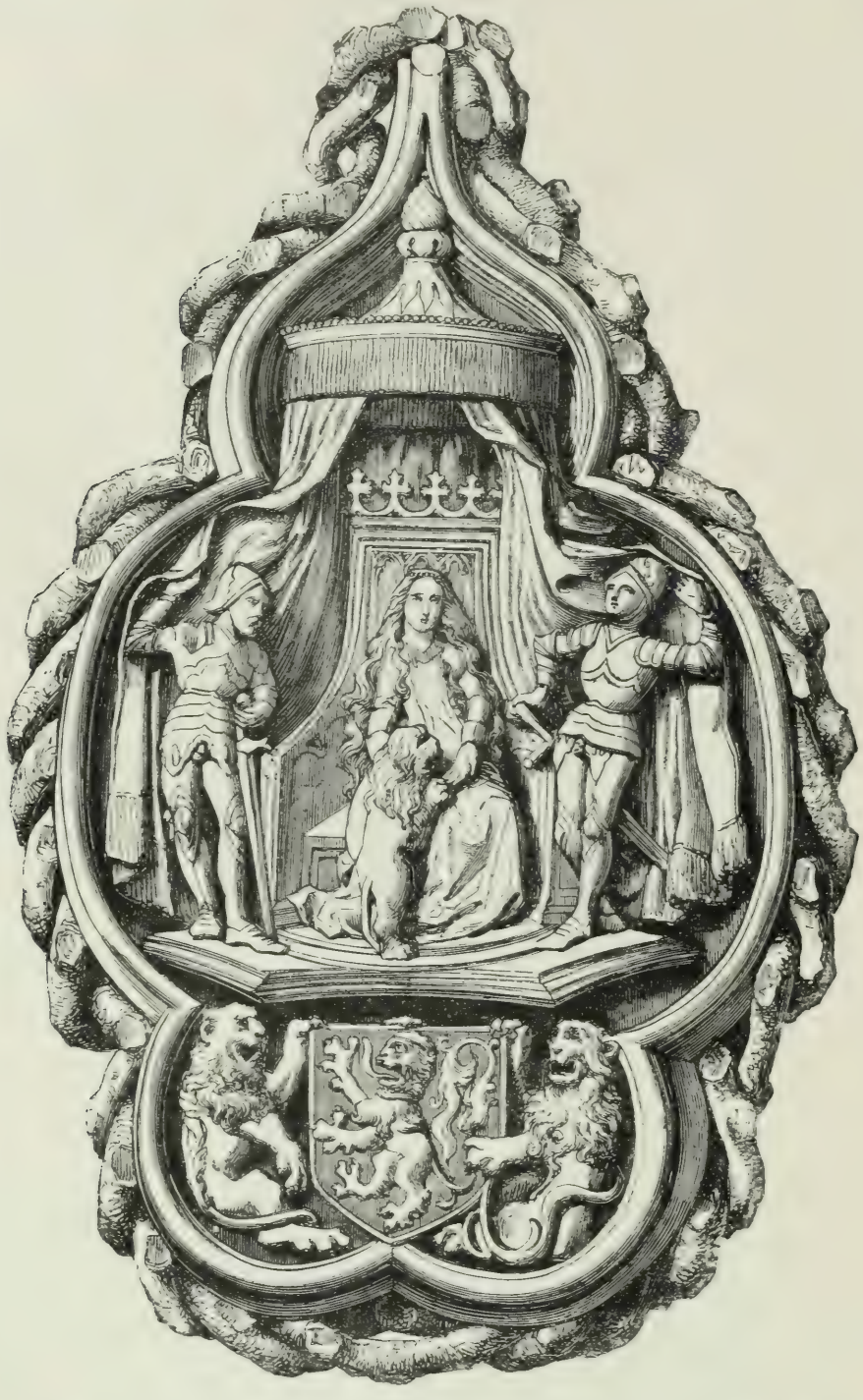


Fig. 102.—Escutcheon in Silver-gilt, executed by Corneille de Bonte, in the Fifteenth Century. (Museum of the Hôtel de Ville, Ghent.)

been so many centres where the Fine Arts struggled for pre-eminence and inspiration. Among the majority of wealthy merchants who had become patricians of those gorgeous republics were found so many Mæcenases, under whose patronage flourished great artists countenanced by popes and

princes. "From the moment," says M. Labarte, "that Niccolo and Giovanni of Pisa and Giotto threw off the Byzantine yoke and caused the Arts to emerge from langour, that of the goldsmith could no longer find favour in Italy but by maintaining itself on a level with the progress of sculpture, whose daughter it was. When we know that the great Donatello, Filippo Brunelleschi, the bold architect of the dome of Florence, Ghiberti, the author of the marvellous doors of the Baptistery, had goldsmiths for their earliest masters, we may judge what artists the Italian goldsmiths of that period must have been." The first in date is the celebrated Giovanni of Pisa, son of Niccolo, who, brought from Arezzo in 1286 to sculpture the marble table of the high-altar and a group of the Virgin between St. Gregory and St. Donato, desired to pay tribute to the taste of the time by ornamenting the altar with those fine silver chasings, coloured with enamel, to which we give the name of translucid enamels on relief; and also by designing a clasp or jewel with which he decorated the breast of the Virgin. Both chasings and clasp are now lost.

To Giovanni of Pisa succeeded his pupils Agostino and Agnolo of Siena.

In 1316 Andrea of Ognibene executed, for the Cathedral of Pistoia, an altar-front, which has come down to us, and must have been followed by more important works. Then came Pietro and Paolo of Arezzo, Ugolino of Siena, and finally Master Cione, the author of the two silver bas-reliefs still to be seen on the altar of the Baptistery of Florence. Master Cione, whose school was a large one, had for his principal pupils Forzane of Arezzo and Leonardo of Florence, who worked on the two most noted monuments of the goldsmith's art which time and depredations have respected—the altar of San Giovanni at Pistoia, and that same altar of the Baptistery to which the bas-reliefs of Cione were afterwards adapted. During more than a hundred and fifty years the ornamentation of these two altars, of which no description can give an idea, was, if we may so say, the arena wherein all the most famous goldsmiths met.

At the end of the fourteenth century Luca della Robbia, who, as we have seen, distinguished himself in ceramic art, and afterwards Brunelleschi, no less great as an architect than as a sculptor, came forth from the studio of a goldsmith. At the same period shone Baccioforto and Mazzano of Piacenza, Arditi the Florentine, and Bartoluccio, master of the famous sculptor Ghiberti, to whom we owe those doors of the Baptistery which Michael Angelo said deserved to be the gates of heaven.

It is well known that the execution of these doors was, in 1400, submitted to competition; and it may be said, in honour of the goldsmith's art, that Ghiberti, vying with the most celebrated competitors—for among them were Donatello and Brunelleschi—owed his triumph, perhaps, to the simple fact

that he had treated, as it were by habit, his model with all the delicacy of a goldsmith. And it must be added to the praise of the great artist, that although in great reputation for sculptured works of the highest importance, he adhered faithfully all his life to his first profession, and considered it not derogatory even to manufacture jewellery. Thus, for example, in 1428 he mounted as a signet for Giovanni de Medicis, a cornelian said to have belonged to the treasury of Nero, and he set it as a winged dragon emerging from a cluster of ivy leaves; in 1429, for Pope Martin V., a morse and a mitre; and in 1439, for Pope Eugenius IV., a golden mitre, embellished with five and a half pounds weight of precious stones—its front repre-

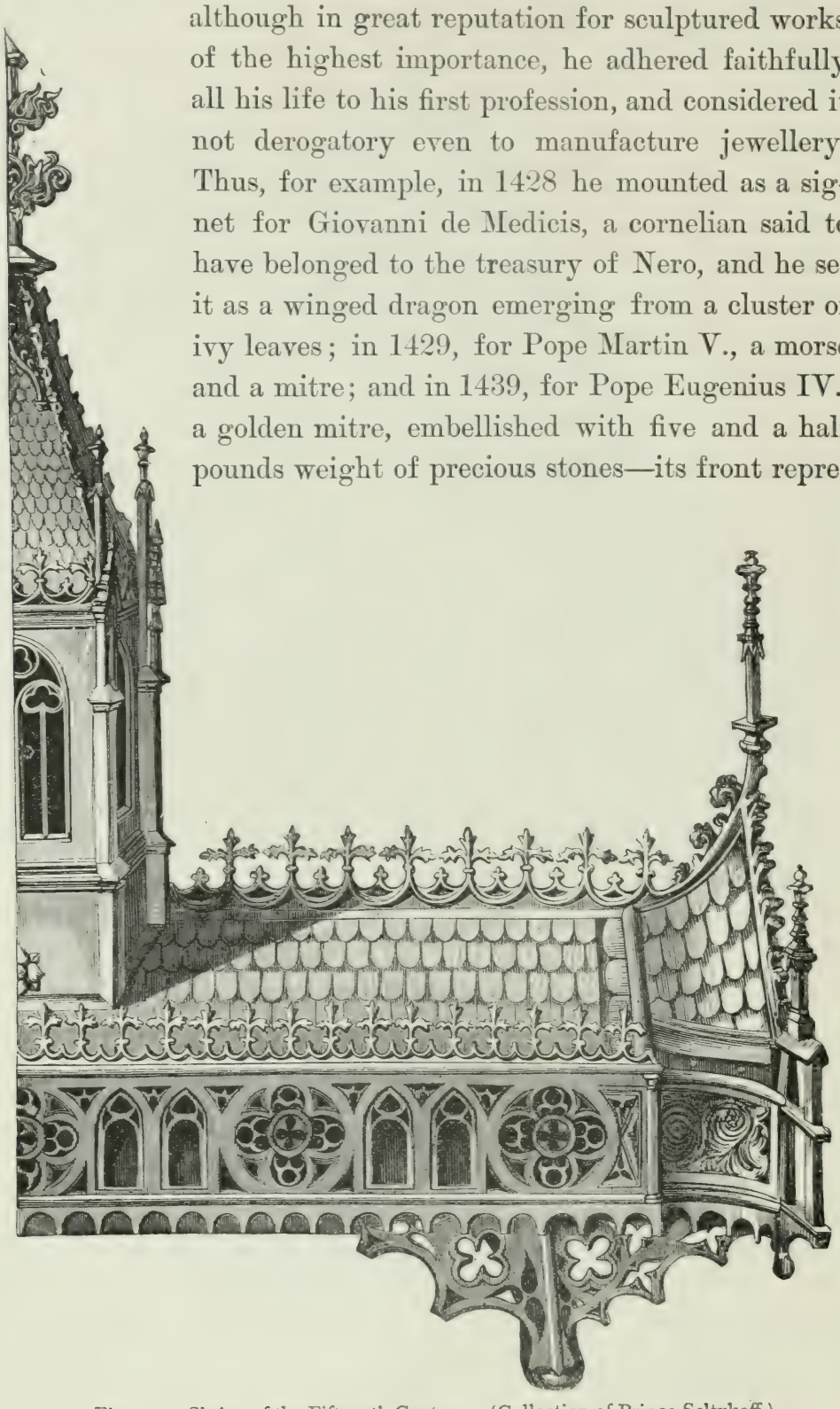


Fig. 103.—Shrine of the Fifteenth Century. (Collection of Prince Soltykoff.)

senting Christ surrounded by numerous cherubs, and at the back the Virgin in the midst of the four Evangelists.

During the forty years employed in the execution of the doors of the

Baptistery, Ghiberti continued to derive assistance from several goldsmiths, who, so guided, could not fail in their turn to become skilful masters.

The list would be long of goldsmiths who, by the single force of their talents, or under the direction of renowned sculptors, vied with each other for two centuries in the production of the marvellous works with which the churches of Italy are still crowded; and in fact it would be only a monotonous detail, the interest of which can scarcely be enhanced by any description we could give of their works. Nevertheless, we may cite the most illustrious of them: for instance, Andrea Verrochio, in whose studio Perugino and Leonardo da Vinci passed some of their youth; Domenichino Ghirlandajo, so called because when a goldsmith he had invented an ornament in the form of garlands, of which the ladies of Florence were passionately fond; he afterwards relinquished the hammer and the graver for the painter's pencil; Maso Finiguerra, who, reputed to be the cleverest niello-worker of his time, engraved a *pax*, or paten, still preserved in the cabinet of bronzes in Florence, and acknowledged to be the first engraving printed.

In 1500 was born Benvenuto Cellini, who was to be the embodiment of the genius of the goldsmith's art, and who raised it to the zenith of its power. "Cellini, a Florentine citizen, now a sculptor," as his contemporary Vasari relates, "had no equal in the goldsmith's art when devoting himself to it in his youth, and was perhaps for many years without a rival in the execution of small figures in full relief and in bas-relief and other works of that nature. He mounted precious stones so skilfully, and decked them in such marvellous settings, with small figures so perfect, and sometimes so original and with such fanciful taste, that one could not imagine anything better; nor can we adequately praise the medals which, when he was young, he engraved with incredible care in gold and silver. At Rome he executed, for Pope Clement VII., a morse in which he represented with admirable workmanship the Eternal Father. He also mounted with rare talent a diamond, cut to a point, and surrounded by several young children carved in gold. Clement VII. having ordered a gold chalice with its cup supported by the theological attributes, Benvenuto executed the work in a surprising manner. Of all the artists who, in his own time, tried their hands at engraving medals of the Pope, no one succeeded better, as those well know who possess them or have seen them. Also to him was entrusted the execution of the coins of Rome; and finer pieces were never struck. After the death of Clement VII., Benvenuto returned to Florence, where he engraved the head of Duke Alexander on coins, which are so beautiful that to this day several specimens are preserved as precious antique medals; and rightly so, for in them Benvenuto surpassed himself. At length he devoted himself to sculpture and to

the art of casting statues. He executed in France, where he was in the service of Francis I., many works in bronze, silver, and gold. Returning to his native country, he was employed by the Duke Cosmo de Medicis, who at once required of him several works in jewellery, and afterwards some sculptures."

Thus, Benvenuto was at once goldsmith (Fig. 104), medallist, and sculptor, and excelled in all these arts, as many of his productions still attest. Never-

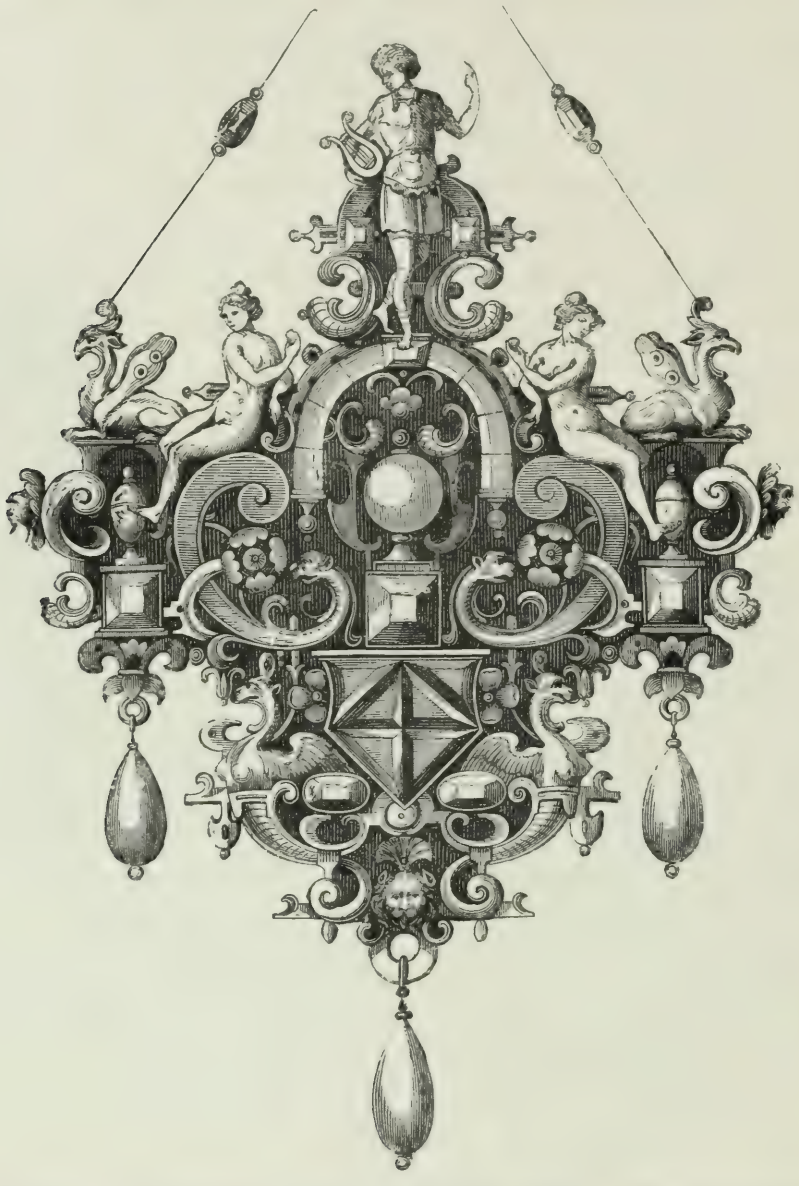


Fig. 104.—A Pendant, after a design by Benvenuto Cellini. Sixteenth Century. (Cabinet of Antiquities, Bibl. Nat., Paris.)

theless, the majority of his works have been destroyed, or are confounded with those of his contemporaries. In France there is only the magnificent salt-cellar which he executed for Francis I.; Florence possesses the mounting of a cup in lapis-lazuli, representing three anchors in gold, enamelled and heightened by diamonds; also the cover, in gold enamelled, of another cup of rock crystal. But, besides the bronze bust of Cosmo I., we may still

admire the small model of the group of Perseus and Medusa, which in size approaches goldsmith's work; and the bronze pedestal, decorated with statuettes, on which the large group stands, under the Loggia di Lanzi; works that enable us to see of what Cellini was capable as a goldsmith. And, let us repeat, the influence which he exercised over his contemporaries was immense, as well in Florence as in Rome, as well in France as in Germany; and, had his work been thought utterly worthless, he would remain not less justly celebrated for giving an impulse to his time by imprinting on the art which he professed a movement as fertile as it was bold.

Moreover, in imitation of the monk Theophilus, his predecessor of the twelfth century, Benvenuto Cellini, after having given practical example, desired that the theories he had found prevailing, and those which were due



Fig. 105.—Cup of Lapis-lazuli, mounted in Gold enriched with Rubies, and a Figure in Gold enamelled. (Italian Work of the 16th Century.)



Fig. 106.—Vase of Rock-crystal, mounted in Silver-gilt and enamelled. (Italian Work of the 16th Century.)

to his faculty for originating, should be preserved for posterity. A treatise ("Trattato intorno alle otto principali Arti dell' Orificeria"), in which he describes and teaches all the best processes of working in gold, remains one of the most valuable works on the subject; and even in our days goldsmiths who wish to refer back to the true sources of their art do not neglect to consult it.

The artistic style of the celebrated Florentine goldsmith is that of a period when by an earnest return to antiquity, the mythological element was introduced everywhere, even in the Christian sanctuaries. The severity which characterized the art of the Middle Ages, ceased to influence plastic productions, when models began to be taken from the glorious remains of idolatrous Greece and Rome. The art which the religion of Christ had

awakened and upheld suddenly became again Pagan, and Cellini proved himself an enthusiast for the temples raised in honour of the golds of Paganism. When Cellini came to France he found, as he himself says in his book, that the work consisted "more than elsewhere in *grosserie*" (*the grosserie* comprised the church plate, vessels, and silver images), "and that the works there executed with the hammer had attained a degree of perfection nowhere else to be met with."

The inventory of the plate and jewels of Henry II., prepared in 1560, at Fontainebleau, show us that, after the departure of Benvenuto, the French goldsmiths continued to deserve his praise; and to comprehend of what they were capable in the time of Charles IX., it is sufficient to refer to the description, preserved in the archives in Paris, of a piece of plate which the city had presented to the king on his entry into the capital in 1571.

"It was," says that document, "a large pedestal, supported on four dolphins, and having seated on it Cybele, mother of the gods, representing the mother of the king, accompanied by the gods Neptune and Pluto, and the goddess Juno, as Messeigneurs the brothers, and Madam the sister of the king. This Cybele was contemplating Jupiter, who represented our king, and was raised on two columns, the one of gold the other of silver, having his device inscribed—'Pietate et Justitia.' Upon this was a large imperial crown, on one side held in the beak of an eagle perched on the croup of a horse on which Jupiter was mounted, and on the other side supported by the sceptre he held—thus being, as it were, deified. At the four corners of the pedestal were the figures of four kings, his predecessors, all of the same name —that is, Charles the Great, Charles V., Charles VII., and Charles VIII.— who in their time fulfilled their missions, and their reigns were happy, as we hope will be that of our king. In the frieze of that pedestal were the battles and the victories of all kinds in which he was engaged; the whole made of fine silver, gilt with ducat gold, chased, engraved, and in workmanship excellent, that the style surpassed the material."

That rare piece was the work of Jean Regnard, a Parisian goldsmith; and the period when such works were produced was precisely that during which religious wars were about to cause the annihilation of a great number of the *chefs-d'œuvre*, ancient and modern, of the goldsmith's art. The new iconoclasts, the Huguenots, shattered and melted down, wherever they triumphed, the sacred vessels, the shrines, the reliquaries. Then were lost the most precious gold-wrought memorials of the times of St. Eloi, of Charlemagne, of Suger, and of St. Louis.

At the same period Germany, where the influence of the Italian school had made itself felt less directly, possessed goldsmith's ateliers of a high character at Nuremburg and Augsburg; these furnished the empire, and

even foreign countries, with remarkable works. A new career opened to the German goldsmiths by the inventive cabinet-makers of their country, in the decoration of whose productions appear statuettes, silver bas-reliefs, and inlays of gold and precious stones.

The treasuries and the museums of Germany have succeeded in preserving many rich objects of that period; one of the most rare collections of the kind is that in Berlin, where, in substitution for the originals in silver which have been melted down, are gathered a great number of beautiful bas-reliefs in lead, and several vases in tin—copies of pieces of plate supposed to be of the sixteenth and seventeeth centuries. And on this point it may be remarked that on account of the high price of the material and the provisions of the sumptuary laws, it sometimes happened that goldsmiths manufactured a table-service of tin, on which they bestowed so much pains that these articles were transferred from the sideboards of citizens to those of princes. The inventory of the Count d'Angoulême, father of Francis I., alludes to a considerable table-service of tin. Indeed, several goldsmiths devoted themselves exclusively to this description of work; and, to this day, the tins of François Briot, who flourished in the time of Henry II., are regarded as the most perfect specimens of the plate of the sixteenth century.

However that may be, after Cellini, and until the reign of Louis XIV., the goldsmith's art did but follow faithfully in the footsteps of the Italian master. Elevated by the impulses of the Renaissance, the art succeeded in maintaining itself in that high position without, however, any striking individuality discovering itself, until, in a century not less illustrious than the sixteenth, new masters appeared and imparted to it additional lustre and magnificence. These are named Ballin, Delaunay, Julien Defontaine, Labarre, Vincent Petit, Roussel, goldsmiths and jewellers of Louis XIV., who retained them in his pay and lodged them in the Louvre. For him they produced an imposing collection of admirable works, for which Le Brun often furnished the designs, and under an inspiration altogether French, abandoned the graceful, though rather thin forms of the Renaissance, and gave to them a character more diffuse and grand. Then for a short time, every article of royal furniture proceeded from the hands of the goldsmith, only to disappear once more, however, when the requirements of almost perennial war sent them to the crucible.

Having finished this sketch of the goldsmith's art in general, it may be as well to add a brief notice of the French goldsmiths, and of the wealthy corporation, which may be considered not only the most ancient, but also the model of all those formed in France in the Middle Ages. But first, since we have already referred to the exceptional part taken by the goldsmiths of Limoges in the industrial movement of that period, we cannot proceed

further without noting a class of art-work which added new lustre to the ancient city.

"Towards the end of the fourteenth century," says M. Labarte, "the taste for gold and silver articles having led to the disuse of enamelled copper, the Limousine enamellers endeavoured to discover a new mode of applying enamel to the reproduction of graphic subjects. Their researches led them to dispense with the chaser for delineating the outlines of design, and to entirely overlay the metal with the enamel. The first attempts at this novel painting on copper were of course very imperfect; but the process gradually improved until at length, in 1540, it attained something like perfection. At first the enamels of Limoges were almost exclusively devoted to sacred subjects, of which the German school furnished the designs. But the arrival of Italian artists at the court of Francis I., and the publication of engravings of





Figs. 107 and 108.—Faces of an Hexagonal Enamelled Salt-cellar, representing the Labours of Hercules. Executed at Limoges, for Francis I., by Pierre Raymond.

the works of Raphael and other great Italian masters, gave a new direction to the school of Limoges. Il Rosso and Primaticcio painted cartoons for the Limousine enamellers; and then they who had previously worked only on plates intended to be set in diptychs or on caskets, created a new species of goldsmith's art. Basins, ewers, cups, salt-cellars, vases, and utensils of all sorts, were manufactured in thin sheet-copper, and decorated with rich and brilliant painting."

In the highest rank of the artists who have rendered this attractive work illustrious we must place Léonard Limousin, painter to Francis I., who was the first director of the royal manufacture of enamels founded by that king at Limoges. Then followed Pierre Raymond (Figs. 107 to 110), whose

works date from 1534 to 1578, the Penicauds, Courteys, Martial Raymond, Mercier, and Jean Limousin, enameller to Anne of Austria.

With the remark that, at the end of the sixteenth century, Venice, doubtless imitating Limoges, also manufactured pieces of plate in enamelled copper, we return to our national goldsmiths.

St. Eloi, prime minister, if such a phrase may be used, to Dagobert I., was the founder of the French corporation of goldsmiths. "He made for the king," says an old chronicle, "a great number of gold vases enriched with precious stones, and he worked incessantly, seated with his servant Thillon, a Saxon by birth, at his side, who followed the lessons of his master."



Fig. 109.—Top of a Limoges Salt-cellar, with a Portrait of Francis I.

This extract seems to indicate already that the goldsmith's art was organised as a corporation, and that it comprised three ranks of artisans—the masters, the journeymen, and the apprentices. Besides, it is clear that St. Eloi founded two distinct corporations of goldsmiths—one for secular, the other for religious works, in order that the objects sacred to worship should not be manufactured by the same hands that executed those designed for profane uses or worldly state. The seat of the former in Paris was first the Cité, near the very abode of St. Eloi, long known as the *maison au fèvre*, and surrounding the monastery of St. Martial. Within the jurisdiction of that monastery was the space comprised between the Rue de la Barillerie, the Rue

de la Calandre, the Rue aux Fèves, and the Rue de la Vieille Draperie, and known as the *Ceinture Saint-Eloi.* A raging fire destroyed the entire quarter inhabited by the goldsmiths, excepting the monastery; and the lay goldsmiths went forth and established themselves as a colony, still under the auspices of their patron saint, in the shadow of the Church of St. Paul des Champs, which he had caused to be constructed on the right bank of the Seine. The assemblage of forges and shops of these artisans soon formed a sort of suburb, which was called the *Clôture,* or *Culture St. Eloi.* Subsequently some of the goldsmiths returned to the Cité; but they remained on the Grand-Pont, and returned no more to the streets, where the cobblers had established themselves. Moreover, the monastery of St. Martial had become, under the administration of its first abbess, St. Anne, a branch of the goldsmith's school which the "Seigneur Eloi" had established in 631 in the



Fig. 110.—Ewer in Limoges Enamel, by Pierre Raymond.

Abbey of Solignac, in the environs of Limoges. That abbey, whose first abbot, Thillon or Théau—a pupil, or as the chronicle expresses it, a servant of St. Eloi—was also a skilful goldsmith, preserved during several centuries the traditions of its founder, and furnished not only models, but also skilful workmen, to all the monastic ateliers of Christendom which exclusively manufactured plate for the churches.

However, the secular goldsmiths of Paris continued to maintain themselves as a corporation; and their privileges, which they ascribed to the special regard of Dagobert for St. Eloi, were recognised, it is said, in 768 by a royal charter, and confirmed in 846 in a capitulary of Charles the Bald. These goldsmiths worked in gold and silver only for kings and nobles, whom the sumptuary laws did not reach. The Dictionary of Jean de Garlande informs us that, in the eleventh century, there were in Paris four classes of

workmen in the goldsmith's trade—those who coined money (*nummularii*), the clasp-makers (*firmaculariі*), the manufacturers of drinking-goblets (*cipharii*), and the goldsmiths, properly so called (*aurifabri*). The ateliers and the shop-windows of these last were on the Pont-au-Change (Fig. 111), in competition with the money-changers, who for the most part were Lombards or Italians. From that epoch a rivalry commenced between these two trade guilds, which only ceased on the complete downfall of the money-changers.

When Etienne Boileau, Provost of Paris in the reign of Louis IX., wrote in obedience to the legislative designs of the king, his famous "Livre des Métiers," to establish the existence of guilds on permanent foundations, he



Fig. 111.—Interior of the Atelier of Etienne Delaulne, a celebrated goldsmith of Paris, in the Sixteenth Century. Designed and engraved by himself.

had scarcely more to do than to transcribe the statutes of the goldsmiths, almost the same as those instituted by St. Eloi, with the modifications consequent on the new order of things. By the terms of the ordinances drawn up by Louis, the goldsmiths of Paris were exempt from the watch, and from all other feudal services; they elected every three years two or three *anciens* (seniors) "for the protection of the trade," and these *anciens* exercised permanent vigilance over the works of their colleagues, and over the quality of the gold and silver material used by them. An apprentice was not admitted as a master until after ten years' apprenticeship; and no master could have more than one apprentice, in addition to those belonging to his own family. The

corporation, so far as concerned the fraternity with respect to works for charitable and devotional purposes, had a seal (Fig. 116) which placed it under the patronage of St. Eloi; but, with regard to its industrial association, it imprinted on manufactured articles a *seing* or stamp, which guaranteed the value of the metal. The corporation soon obtained, from Philip of Valois, a coat-of-arms, which conferred on it a sort of professional nobility; and acquired, owing to the distinguished protection extended to it by that king, a position which nevertheless it did not succeed in preserving in the united constitution of the six mercantile bodies; for, although it laid claim to the first rank on account of its antiquity, it was forced, notwithstanding the undeniable superiority of its works, to be contented with the second, and even to descend to the third rank.

The goldsmiths, at the time of the compilation of the code of professions by Etienne Boileau, were already separated, voluntarily or otherwise, from



Fig. 112.—Stamp of Lyons.



Fig. 113.—Stamp of Chartres.



Fig 114.—Stamp of Melun.



Fig. 116.—Ancient Corporate Seal of the Goldsmiths of Paris.



Fig. 115.—Stamp of Orléans.

several trades which had long appeared in their train; the *cristalliers*, or lapidaries; the gold and silver beaters; the embroiderers in *orfroi* (gold-fringe); the *patenôtriers* (bead-stringers) in precious stones lived under their own regulations; the *monétaires* (bullion-dealers) remained under the control of the king and his mint; the *hanapiers* (drinking-cup makers), the *fermailleurs* (makers of clasps), the pewterers, boxmakers, inferior artisans and others who worked in common metals, had no longer any connection with the goldsmiths of Paris. But in the provinces, in towns where the masters of a trade were insufficient to constitute a community or fraternity having its chiefs and its own administration, it was indispensable to reunite under the same banner the trades between which there was the most agreement, or rather the least contrariety. Thus, in certain localities in France and the Low Countries, the goldsmiths, proud as they might be of the nobility of their origin, sometimes found themselves united as equals with the

pewterers, the mercers, the braziers, and even the grocers; and thus it came to pass that they combined on their banners of fleurs-de-lis the proper arms of each of these several trades. Thus, for instance, we see the banner of the goldsmiths of Castellane (Fig. 118) united with the retail mercers and tailors—it shows a pair of scissors, scales, and an ell measure; at Chauny (Fig. 119), a ladder, a hammer, and a vase, indicate that the goldsmiths had for compeers the pewterers and the slaters; at Guise (Fig. 120), the association of farriers, coppersmiths, and locksmiths, is allied with the goldsmiths by a horseshoe, a mallet, and a key; the brewers of Harfleur (Fig. 121) quartered in their arms four barrels between the bars of the cross *gules* charged with a goblet of gold, which was the emblem of their

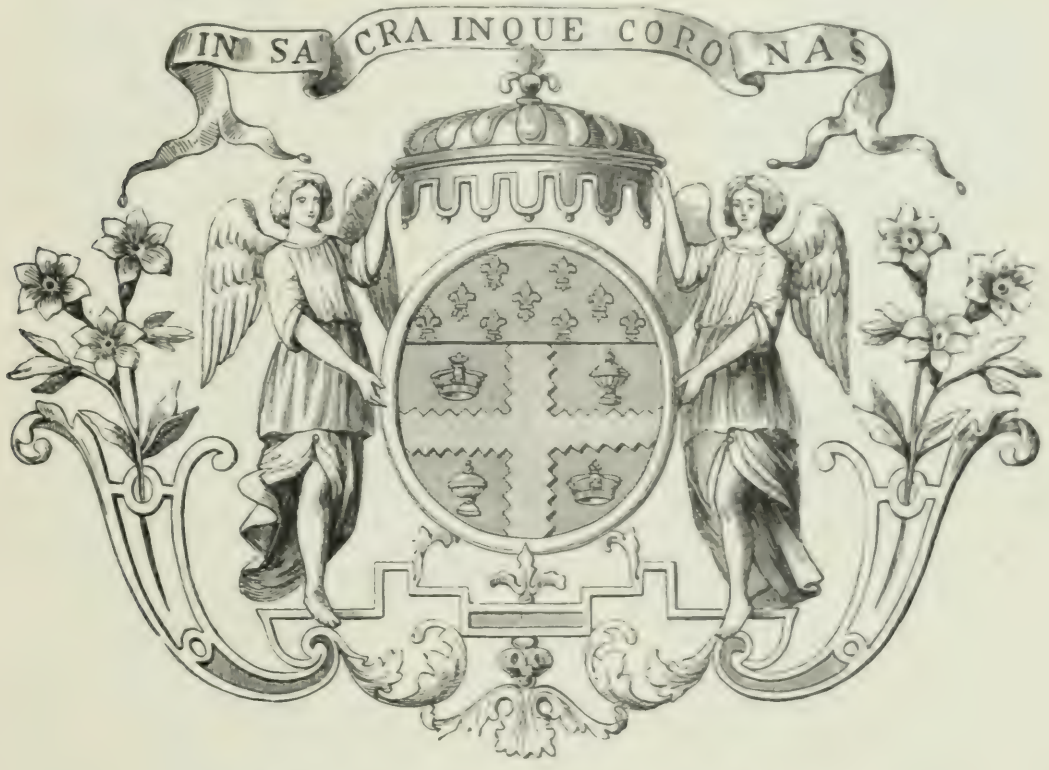


Fig. 117.—Arms of the Corporation of Goldsmiths of Paris.

associates the goldsmiths; at Maringues (Fig. 122), the gold cup on a field *gules* surmounts the grocer's candles.

These banners were displayed only on great public ceremonies, in solemn processions, receptions, marriages, the obsequies of kings, queens, princes, and princesses. Exempted from military service, the goldsmiths, unlike other trade corporations, had not the opportunity of distinguishing themselves in the militia of the communes. They, nevertheless, occupied the first place in the state processions of trades, and frequently filled posts of honour. Thus in Paris they had the custody of the gold and silver plate when the good city entertained some illustrious guest at a banquet; they carried

the canopy above the head of the king on his joyful accession; or, crowned with roses, walked bearing on their shoulders the venerated shrine of St. Geneviève (Fig. 123).

In the wealthy cities of Belgium the goldsmiths, by virtue of their privileges, dictated the law and swayed the people. No doubt in France they were far from enjoying the same political influence; nevertheless, one of them was that provost of merchants, Etienne Marcel, who, from 1356 to 1358, played so bold a part during the regency of the Dauphin Charles. But it was especially in periods of peace and prosperity that the goldsmith's art in Paris shone in all its splendour; then its banners incessantly waved in the breeze for the festivals and processions of its numerous and wealthy

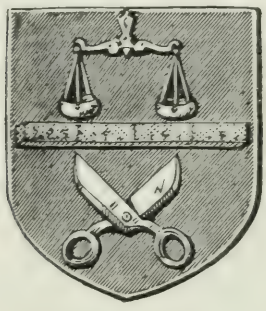


Fig. 118.

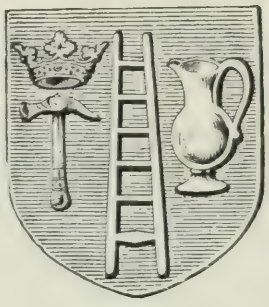


Fig. 119.

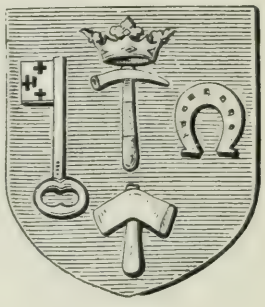


Fig. 120.

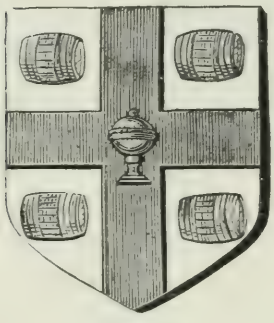


Fig. 121.

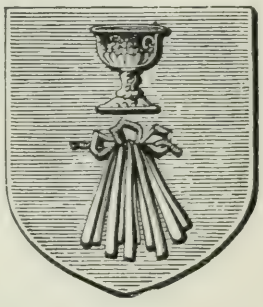


Fig. 122.

brotherhoods to the churches of Notre-Dame, St. Martial, St. Paul, and St. Denis of Montmartre.

In 1337 the number of the wardens of the goldsmith's guild in Paris had increased from three to six. They had their names engraved and their marks stamped on tablets of copper, which were preserved as archives in the town-hall. Every French goldsmith admitted a master after the production of his principal work, left the impression of his sign manual, or private mark, on similar tablets of copper deposited in the office of the guild; while the stamp of the community itself was required to be engraved at the mint to authorise its being used. Every corporation thus had its mark, which the wardens set on the articles after having assayed and weighed the metal. These marks, at least in the later centuries, represented in general

the special arms or emblems of the cities; for Lyons, a lion; for Melun, an eel; for Chartres, a partridge; for Orleans, the head of Joan of Arc, &c. (Figs. 112 to 115).

The goldsmiths of France manifested, and with reason, a jealousy of their privileges, it being more indispensable for them than for any other artisans to inspire that confidence without which the trade would have been lost; for their works were required to bear as authentic and legal a value as money itself. Therefore, it may be understood that they exercised keen vigilance



Fig. 123.—The Corporation of the Goldsmiths of Paris carrying the Shrine of St. Geneviève.
(From an engraving of the Seventeenth Century.)

over all gold or silver objects which were in any way under their warranty: hence the frequent visits of the sworn masters to the ateliers and shops of the goldsmiths; hence the perpetual lawsuits against all instances of negligence or fraud; hence those quarrels with other trades which arrogated to themselves the right of working in precious metals without having qualified for it. Confiscation of goods, the whip, the pillory, were penalties inflicted on goldsmiths in contraband trade who altered the standard, concealed copper beneath the gold, or substituted false for precious stones.

It, indeed, seems remarkable that while for the most part other trades were subject to the control of the goldsmiths, the latter were responsible only to themselves for the aggressions which they constantly committed on the domains of rival industries. Whenever the object to be manufactured was



Fig. 124.—Gold Cross, chased. (A French Work of the Seventeenth Century.)

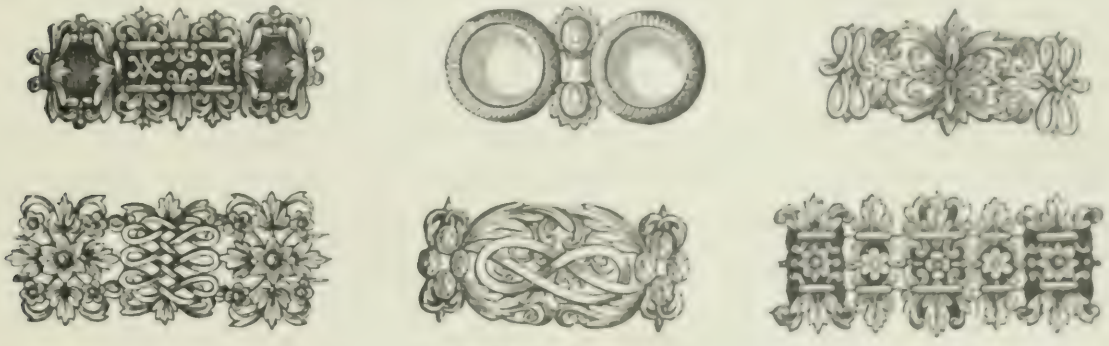
of gold, it belonged to the goldsmith's trade. The goldsmith made, by turns, spurs as the spur-maker; armour and arms, as the armourer; girdles and clasps, as the belt-maker and the clasp-maker. However, there is reason to



Fig. 125.—Pendant, adorned with Diamonds and Precious Stones. (Seventeenth Century.)

believe that in the fabrication of these various objects, the goldsmith had recourse to the assistance of special artisans, who could scarcely fail to derive all possible advantage from such fortuitous associations. Thus, when the gold-wrought sword carried by Dunois when Charles VII. entered Lyons in

1449, which was mounted in diamonds and rubies and valued at more than fifteen thousand crowns, was to be made, the work of the goldsmiths probably consisted only in fashioning and chasing the hilt, while the sword-cutler had to forge and temper the blade. In the same manner, when it was required to work a jewelled robe, such as Marie de Medicis wore at the



Figs. 129 to 131.—Clasps.

baptism of her son in 1606, the robe being covered with thirty-two thousand precious stones and three thousand diamonds, the goldsmith had only to mount the stones and furnish the design for fixing them on the gold or silk tissue.



Figs. 132 to 136.—Rings.

Long before Benvenuto and other skilful Italian goldsmiths were summoned by Francis I. to his court, the French goldsmiths had proved that they needed only a little encouragement to range themselves on a level with foreign artists. But that patronage having failed them, they left the



Figs. 137 to 141.—Seals.

country and established themselves elsewhere; thus at the court of Flanders, Antoine of Bordeaux, Margerie of Avignon, and Jean of Rouen, distinguished themselves. It is true that in the reign of Louis XII., whose exchequer had been exhausted in the Italian expeditions, gold and silver had

become so scarce in France, that the king was obliged to prohibit the manufacture of all sorts of large plate (*grosserie*). But the discovery of America having brought with it an abundance of the precious metals, Louis XII. recalled his ordinance in 1510; and thenceforth the corporations of goldsmiths were seen to increase and prosper, as luxuriousness, diffused by the example of the great, descended to the lower ranks of society. Silver plate soon displaced that of tin; and before long personal display had attained such a height, "that the wife of a merchant wore on her person more jewels than were seen on the image of the Virgin." The number of the goldsmiths then became so great that in the city of Rouen alone there were in 1563 *two hundred and sixty-five* masters having the right to stamp!

To sum up this chapter. Until the middle of the fourteenth century

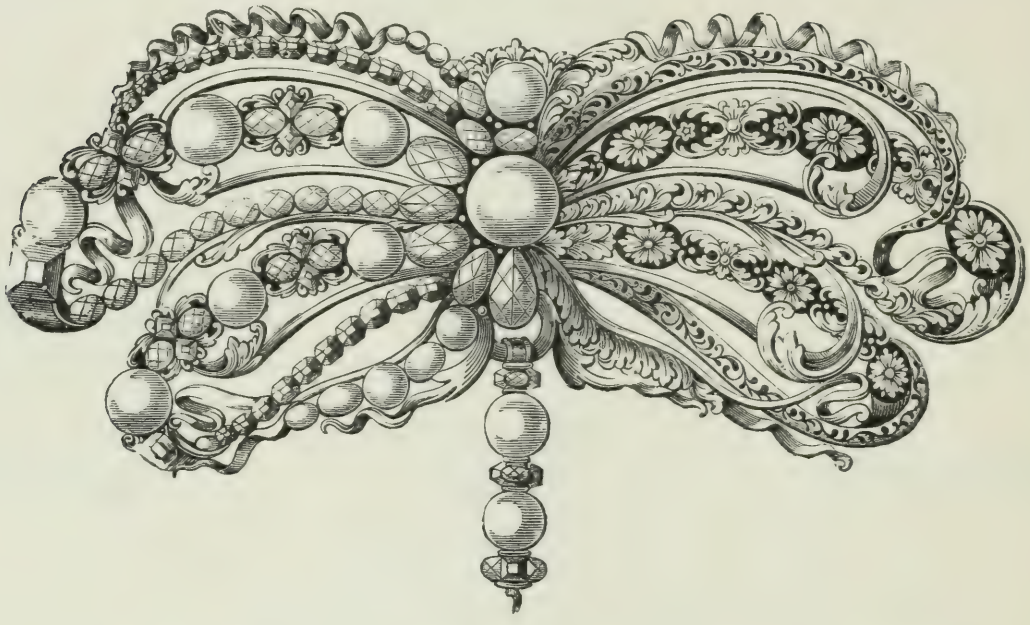


Fig. 142.—Chased and Enamelled Brooch, embellished with Pearls and Diamonds. (Seventeenth Century.)

religious art prevailed; goldsmiths were engaged only in making shrines, reliquaries, and church ornaments. At the end of that, and during the following century, they manufactured gold and silver plate, enriching with their work the treasuries of kings and nobles, and imparting brilliancy to dress. In the sixteenth and seventeenth centuries the goldsmiths applied themselves more to chasing, enamelling, and inlay-work. Everywhere were to be seen marvellous trinkets—necklaces, rings, buckles, chains, seals (Figs. 124 to 142). The weight of metal is no longer the principal merit; the skill of the workman is especially appreciated, and the goldsmith executes in gold, in silver, and in precious stones the beautiful productions of painters and engravers. Nevertheless, the demand for delicate objects had the disadvantage of requiring much solder and alloy, which deteriorated the standard of metal. Then a desperate struggle commenced between the goldsmiths and the mint—

a struggle which was prosecuted through a maze of legal proceedings, petitions and ordinances, until the middle of the reign of Louis XV. At the same time the Italian and German goldsmiths making an irruption into France and introducing materials of a low standard, the old professional integrity became suspected and was soon disregarded. At the end of the sixteenth century very little plate was ornamented: there is a return to massive plate, the weight and standard of which could be easily verified. Gold is scarcely any longer employed, except for jewels; and silver in a thousand forms creeps into the manufacture of furniture. After cabinets covered and ornamented with carving in silver, came the furniture invented by Claud Ballin. But the mass of precious metal withdrawn from circulation was soon returned to it, and the fashion passed away. The goldsmiths found themselves reduced to manufacture only objects of small size; and for the most part they limited themselves to works of jewellery, which subjected them to less annoyance from the mint. Besides, the art of the lapidary had almost changed its character, as well as the trade in precious stones. Pierre de Montarsy, jeweller to the king, effected a kind of revolution in his art, which the travels of Chardin, of Bernier, and of Tavernier, in the East had, so to say, enlarged. The cutting and mounting of precious stones has not since been excelled. It may be said that Montarsy was the first French jeweller, as Ballin was the last goldsmith.



HOROLOGY.

Modes of measuring Time among the Ancients.—The Gnomon.—The Water-Clock.—The Hour-Glass.—The Water-Clock, improved by the Persians and by the Italians.—Gerbert invents the Escapement and the moving Weights.—The Striking-bell.—Maistre Jehan des Orloges.—Jacquemart of Dijon.—The first Clock in Paris.—Earliest portable Timepiece.—Invention of the spiral Spring.—First appearance of Watches.—The Watches, or "Eggs," of Nuremberg.—Invention of the Fusee.—Corporation of Clockmakers.—Noted Clocks at Jena, Strasburg, Lyons, &c.—Charles-Quint and Jannellus.—The Pendulum.

AMONG the ancients there were three instruments for measuring time—the *gnomon*, or sun-dial, which is only, as we know, a table whereon lines are so arranged as successively to meet the shadow cast by a gnomon, thus indicating the hour of the day according to the height or inclination of the sun; the water-clock (*clepsydra*), which had for its principle the measured percolation of a certain quantity of water; and the hour-glass, wherein liquid is exchanged for sand. It would be difficult to determine which of these three chronometric modes can lay claim to priority. There is this to be said that, according to the Bible, in the eighth century before Christ, Ahaz, King of Judah, caused a sun-dial to be constructed at Jerusalem; again, Herodotus says Anaximander introduced the sun-dial into Greece, whence it passed on to the other parts of the then civilised world; and that, in the year 293 before our era, the celebrated Papirius Cursor, to the astonishment of his fellow-citizens, had a sun-dial traced near the temple of Jupiter Quirinus.

According to the description given by Athenæus, the water-clock was formed of an earthenware or metal vessel filled with water, and suspended over a reservoir whereon lines were marked indicating the hours, as the water which escaped drop by drop from the upper vessel came to their level. We find this instrument employed by most ancient nations, and in many countries it remained in use until the tenth century of the Christian era.

In one of his dialogues Plato declares that the philosophers are far more fortunate than the orators—"these being the slaves of a miserable water-clock; whereas the others are at liberty to make their discourse as long as they please." To explain this passage, we must remember that it was the

practice in the Athenian courts of justice, as subsequently in those of Rome, to measure the time allowed to the advocates for pleading by means of a water-clock. Three equal portions of water were put into it—one for the prosecutor, one for the defendant, and the third for the judge. A man was charged with the special duty of giving timely notice to each of the three speakers that his portion was nearly run out. If, on some unusual occasion, the time for one or other of the parties was doubled, it was called "adding water-clock to water-clock;" and when witnesses were giving evidence, or the text of some law was being read out, the percolation of the water was stopped: this was called *aquam sustinere* (to retain the water).

The hour-glass, which is still in use to a considerable extent for measuring



Fig. 143.—The Clockmaker. Designed and Engraved by J. Amman.

short intervals of time, had great analogy with the water-clock, but was never so regular. In fact, at different periods, important improvements were applied to the water-clock. Vitruvius tells us that, about one hundred years before our era, Ctesibius, a mechanician of Alexandria, added several cogged-wheels to the water clock, one of which moved a hand, showing the hour on a dial. This must have been, so far as historical documents admit of proof, the first step towards purely mechanical horology.

In order, then, to find an authentic date in the history of horology, we must go to the eighth century, when water-clocks, still further improved, were either made or imported into France; among others, one which Pope Paul I. sent to Pepin le Bref. We must, however, believe that these instru-

ments attracted but little attention, or that they were speedily forgotten; for, one hundred years later, there appeared a water-clock at the court of Charlemagne, a present from the famous caliph Haroun-al-Raschid, which was regarded as a notable event. Of this clock Eginhard has left us an elaborate description. It was, he says, in brass, damaskeened with gold, and marked the hours on a dial. At the end of each hour an equal number of small iron balls fell on a bell, and made it sound as many times as the hour indicated by the needle. Twelve windows immediately opened, out of which were seen to proceed the same number of horsemen armed *cap-à-pie*, who, after performing divers evolutions, withdrew into the interior of the mechanism, and then the windows closed.

Shortly afterwards Pacificus, Archbishop of Verona, constructed one far superior to all that had preceded it; for, besides giving the hours, it indicated the date of the month, the days of the week, the phases of the moon, &c. But still it was only an improved water-clock. Before horology, as we understand it, could commence, it was neccessary that weights should be substituted for water as motive power, and that the escapement should be invented; yet it was only in the beginning of the tenth century that these important discoveries were made.

"In the reign of Hugh Capet," says M. Dubois, "there lived in France a man of great talent and reputation named Gerbert. He was born in the mountains of Auvergne, and had passed his childhood in tending flocks near Aurillac. One day some monks of the order of St. Benedict met him in the fields; they conversed with him, and finding him precociously intelligent, took him into their convent of St. Gérauld. There Gerbert soon acquired a taste for monastic life. Eager for knowledge, and devoting all his spare moments to study, he became the most learned of the community. After he had taken vows, a desire to add to his scientific attainments led him to set out for Spain. During several years he assiduously frequented the universities of the Iberian peninsula. He soon found himself too learned for Spain; for in spite of his truly sincere piety, ignorant fanatics accused him of sorcery. As that accusation might have involved him in deplorable consequences, he preferred not to await the result; and hastily quitting the town of Salamanca, which was his ordinary residence, he came to Paris, where he very soon made himself powerful friends and protectors. At length, after having successively been monk, superior of the convent of Bobbio in Italy, Archbishop of Rheims, tutor to Robert I. King of France, and to Otho III., Emperor of Germany, who appointed him to the see of Ravenna, Gerbert rose to the pontifical throne under the name of Sylvester II.; he died in 1003. This great man did honour to his country and to his age. He was acquainted with nearly all the dead and living languages; he was a mechani-

cian, astronomer, physician, geometrician, algebraist, &c. He introduced the Arab numerals into France. In the seclusion of his monastic cell, as in his archiepiscopal palace, his favourite relaxation was the study of mechanics. He was skilled in making sun-dials, water-clocks, hour-glasses, and hydraulic organs. It was he who first applied weight as a motive power to horology; and, in all probability, he is the inventor of that admirable mechanism called escapement—the most beautiful, as well as the most essential, of all the inventions which have been made in horology."

This is not the place to give a description of these two mechanisms, which can hardly be explained except with the assistance of purely technical drawings; but it may be remarked that weights are still the sole motive power of large clocks, and the escapement alluded to was employed throughout the world until the end of the seventeenth century. Notwithstanding the importance of these two inventions, little use was made of them during the eleventh, twelfth, and thirteenth centuries. The water-clock and hour-glass (Fig. 144) continued exclusively in use.

History does not inform us who was the inventor of the striking machinery; but it is at least averred that it existed at the commencement of the twelfth century. The first mention of it is found in the "Usages de l'Ordre de Cîteaux," compiled about 1120. It is there prescribed to the sacristan so to regulate the clock that it "sounds and awakens him before matins;" in another chapter the monk is ordered to prolong the lecture until "the clock strikes." At first, in the monasteries, the monks took it in turn to watch, and warn the community of the hours for prayer; and, in the towns, night watchmen were maintained to announce in the streets the hour denoted by the clocks, or the hour-glasses.

To give an idea of what was effected about this time, we will borrow a passage from the earliest writings in which horology is mentioned; that is, from a MS. by Philip de Maizières, entitled "Le Songe du Vieil Pélerin:" —"It is known that in Italy there is at present (about 1350) a man generally celebrated in philosophy, in medicine, and in astronomy; in his station, by common report, singular and grave, excelling in the above three sciences, and of the city of Padua. His surname is lost, and he is called 'Maistre Jehan des Orloges,' residing at present with the Comte de Vertus; and, for the treble sciences, he has for yearly wages and perquisites two thousand florins, or thereabouts. This Maistre Jean des Orloges has made an instrument, by some called a *sphere* or clock, of the movement of the heavens, in which instrument are all the motions of the signs (zodiacal), and of the planets, with their circles and epicycles, and multiplied differences, wheels (*rees*) without number, with all their parts, and each planet in the said sphere, distinctly. On any given night, we see clearly in what sign and degree are the planets

and the stars of the heavens; and this sphere is so cunningly made, that notwithstanding the multitude of wheels, which cannot well be numbered without taking the machinery to pieces, their entire mechanism is governed by one single counterpoise, so marvellous that the grave astronomers from distant regions come with great reverence to visit the said Maistre Jean and the work of his hands; and all the great clerks of astronomy, of philosophy, and of

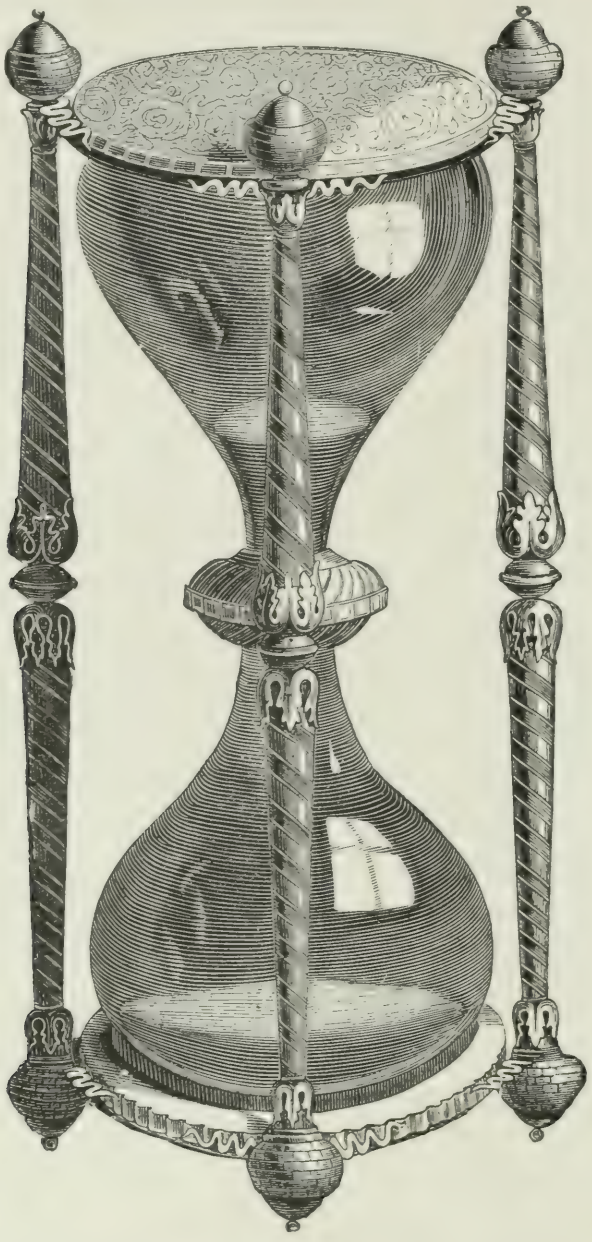


Fig. 144.—An Hour-glass of the Sixteenth Century.—French Work.

medicine, declare that there is no recollection of a man, either in written document or otherwise, who in this world has made so ingenious or so important an instrument of the heavenly movements as the said clock. Maistre Jean made the said clock with his own hands, all of brass and of copper, without the assistance of any other person, and did nothing else during

sixteen entire years, if the writer of the book, who had a great friendship for the said Maistre Jean, has been rightly informed."

It is known, on the other hand, that the famous clockmaker, whose real name Maizières assumes to be lost, was called Jacques de Dondis; and that, in spite of the assertion of the writer, he had only to arrange the clock, the



Fig. 145.—Jacquemart of Notre-Dame at Dijon, made at Courtray in the Fourteenth Century.

parts of which had been executed by an excellent workman named Antoine. However this may be, placed at the top of one of the towers of the palace of Padua, the clock of Jacques de Dondis excited general admiration, and several princes of Europe being desirous to have similar clocks, many workmen tried to imitate it.

Among the most remarkable clocks of that period, we must refer to that

of which Froissart speaks, and which was carried away from the town of Courtray by Philip the Bold after the battle of Rosbecque in 1382.

The celebrated clock of Dijon was then as now surmounted by two automata of iron, a man and a woman, striking the hours on a bell. The origin of the name of *jacquemart* given to these figures has been much disputed. Ménage believes that the word is derived from the Latin *jaccomarchiardus* (coat of mail—attire of war); and he reminds us that, in the Middle Ages, it was the custom to station, on the summit of the towers, men (soldiers wearing the *jacque*) to give warning of the approach of the enemy, of fires, &c. Ménage adds that, when more efficient watchers occasioned the discontinuance of these nocturnal sentinels, it was probably considered desirable to preserve the remembrance of them by putting in the place they had occupied

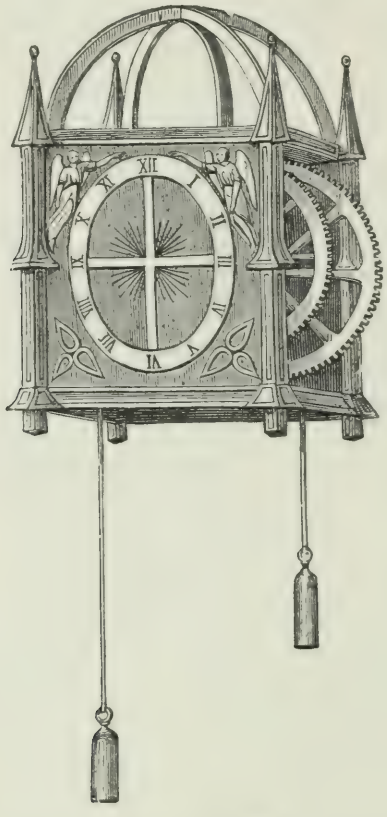


Fig. 146.—Clock with Wheels and Weights. Fifteenth Century.
(Cabinet of Antiquities, Bibl. Nat., Paris.)

iron figures which struck the hours. Other writers trace the name even to the inventor of this description of clocks, who, according to them, lived in the fourteenth century, and was called Jacques Marck. Finally, Gabriel Peignot, who has written a dissertation on the *jacquemart* of Dijon, asserts that in 1422 a person named Jacquemart, clockmaker and locksmith, residing in the town of Lille, received twenty-two livres from the Duke of Burgundy, for repairing the clock of Dijon; and from that he concludes, seeing how short the distance is from Lille to Courtray, whence the clock of Dijon had

been taken, that this Jacquemart might well be the son or the grandson of the clockmaker who had constructed it about 1360; consequently the name of the *jacquemart* of Dijon is derived from that of its maker, old Jacquemart, the clockmaker of Lille (Fig. 145).

The first clock possessed by Paris was that in the tour de l'horloge of the Palais de Justice. Charles V. had it constructed in 1370 by a German artisan, Henri de Vic. It contained a weight for moving power, an oscillating piece for regulator, and an escapement. It was adorned with carvings by Germain Pilon, and was destroyed in the eighteenth century.

In 1389, the clockmaker Jean Jouvence made one for the Castle of Montargis. Those of Sens and of Auxerre, as well as that of Lund in Sweden, date from the same period. In the last, every hour two cavaliers met and gave each other as many blows as the hours to be struck; then a door opened, and the Virgin Mary appeared sitting on a throne, with the Infant Jesus in her arms, receiving the visit of the Magi followed by their retinue, the Magi prostrating themselves and tendering their presents. During the ceremony two trumpets sounded; then all vanished, to repeat the performance at the next hour.

Until the end of the thirteenth century, clocks were destined exclusively for public buildings; or they at least affected, if we may say so, a monumental character which precluded their admission into private houses. The first clock with weights and the flywheel made for private use appeared in France, in Italy, and in Germany, about the commencement of the fourteenth century; but naturally they were at first so costly that only nobles and wealthy persons could obtain them. But an impulse was given which led to the manufacture of these objects more economically. In fact, it was not long before portable clocks were seen in the most unpretentious abodes. This of course did not prevent the production of expensive examples, either as regards ornamentation or carving, or in placing the clock on costly pedestals or cases, within which were suspended the weights (Fig. 146).

The fifteenth century has distinctly left its mark on the progress of horology. In 1401 the Cathedral of Seville was enriched with a magnificent clock which struck the hours. In 1404, Lazare, a Servian by birth, constructed a similar one for Moscow. That of Lubeck, which was embellished with the figures of the twelve apostles, dates from 1405. It is proper to notice also the famous clock which Jean-Galeas Visconti had made for Pavia; and more especially that of St. Marc of Venice, which was not executed until 1495.

The spring was invented in the time of Charles VII.: a band of very fine steel, rolled up into a small drum or barrel, produced, in unrolling, the effect of the weights on the primitive movements. To the possibility of enclosing

the motive power in a confined space is due the manufacture of very small clocks. In fact, one finds in certain collections, clocks of the time of Louis XI., remarkable not only for the artistic richness of their decoration,

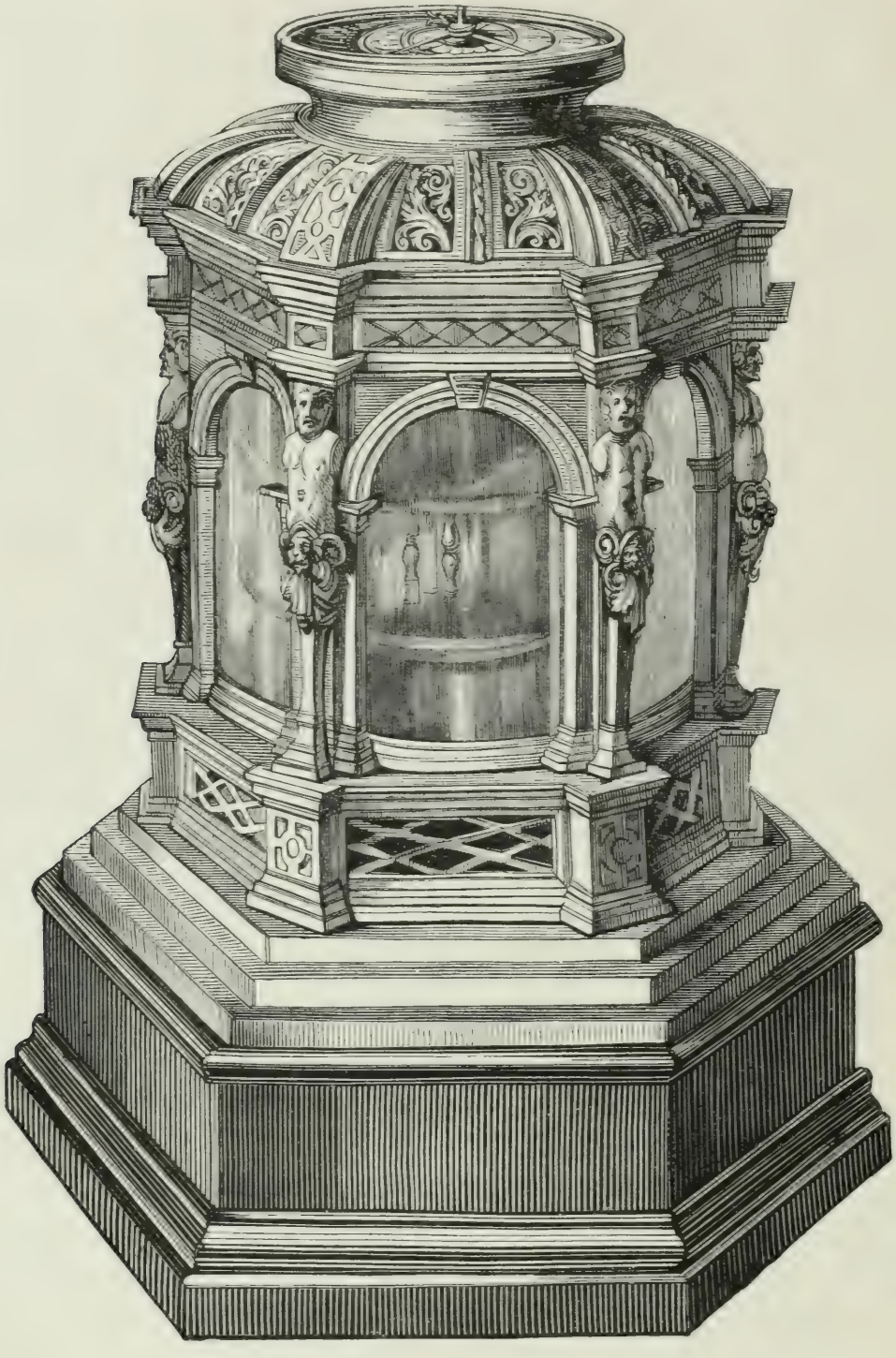
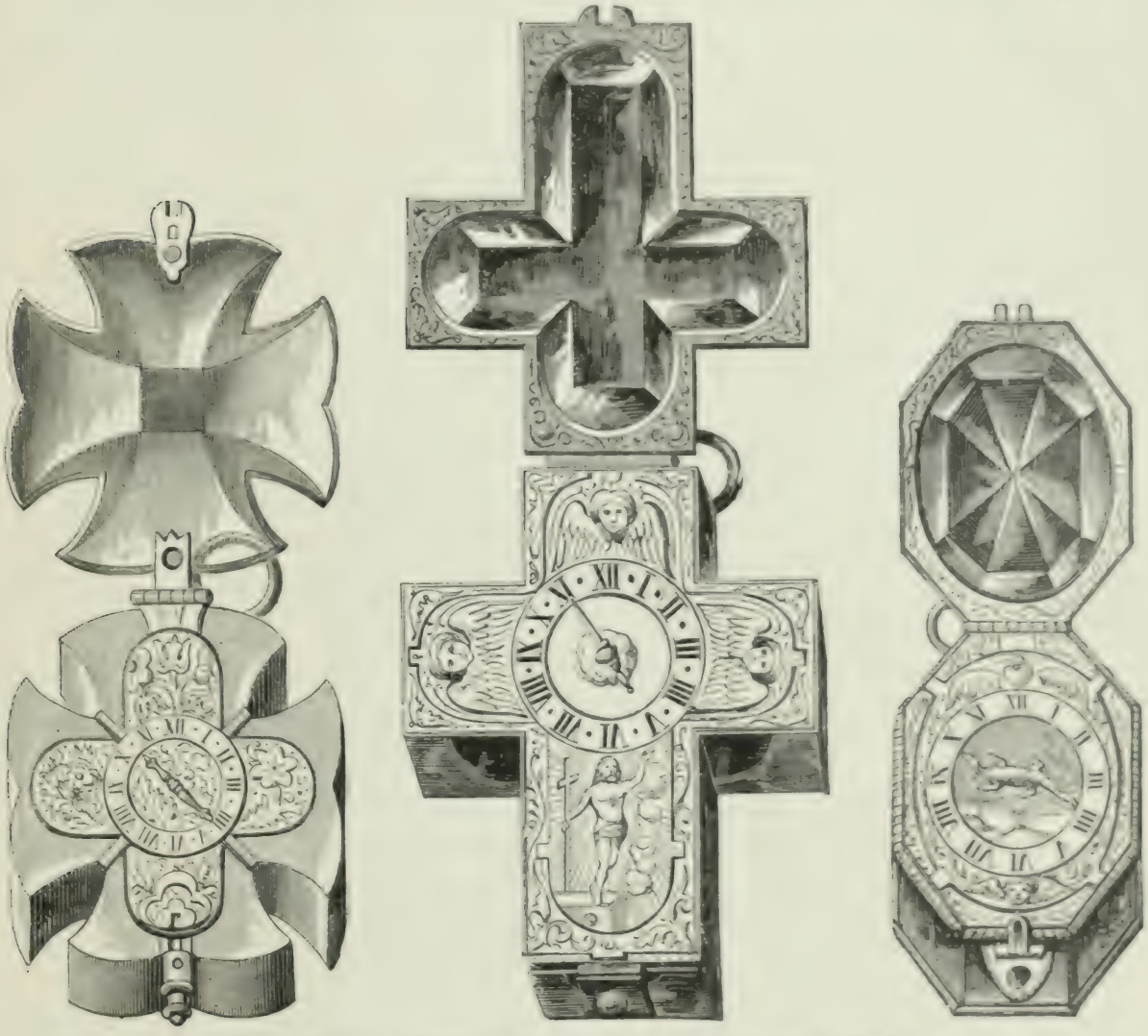


Fig. 147.—A portable Clock of the time of the Valois.

but still more so for the small space they occupy, although they are generally of very complicated mechanism; some marking the date of the month, striking the hour, and serving also as alarm-clocks.

It is difficult, if not impossible, to determine the exact date of the inven-

tion of watches. But, in truth, we ought perhaps to regard the watch as only a portable clock. It is however true, according to the statements found in Pancirole and Du Verdier by the authors of the "Encyclopædia of Sciences," that at the end of the fifteenth century watches were made no larger than an almond. Even the names Myrmécides and Carovagius are cited as those of two celebrated artisans in such work. It was said that the latter made an alarm-watch which not only sounded at any required hour, but even struck a light for a candle. Besides, we know for certain that, in



Figs. 148 to 150.—Watches of the Valois Epoch. (Sixteenth Century.)

the time of Louis XI., there were watches very small yet perfectly manufactured; and it is proved that, in 1500, at Nuremberg, Peter Hele made them of the form of an egg, and consequently the watches of that country were long known as *Nuremberg eggs*.

We learn, moreover, from history that in 1542, a watch which struck the hours, set in a ring, was offered to Guidobaldo Rovere; and that in 1575, Parker, Archbishop of Canterbury, bequeathed to his brother Richard a cane of Indian wood having a watch placed in its head; and, finally, that

Henry VIII. of England wore a very small watch, requiring to be wound up only every eighth day.

It is not inappropriate here to remark that the time kept by these little machines was not regular until an ingenious workman, whose name has not come down to us, invented the fusee, by which a compensating action was provided for. Subsequently a clockmaker named Gruet improved this part of the mechanism.

The use of watches spread rapidly in France. In the reigns of the Valois, a large number were made of very diminutive size and in all sorts of forms, especially those of an acorn, an almond, a Latin cross, a shell (Figs. 148 to 150). They were engraved, chased, enamelled; the hand which marked the hour was very frequently of delicate workmanship, and sometimes ornamented with precious stones. Some of these watches set in motion symbolic figures, as well as Time, Apollo, Diana, the Virgin, the Apostles, and the saints.

Having thus reached the middle of the sixteenth century, we must be content with the mention of some of the remarkable works produced by an art that had already manifested itself with a power never to be diminished.

The clock which Henry II. had constructed for the château of Anet has long been regarded as very curious. Every time the hand denotes the hour, a stag appears from the inside of the clock, and darts away followed by a pack of hounds; but soon the pack and the stag stop, and the latter, by means of very ingenious mechanism, strikes the hour with one of his feet.

A clock at Jena (Fig. 151), which is still in existence, is not less famous. Above the dial is a bronze head presumed to represent a buffoon of Ernest, Elector of Saxony, who died in 1486. When the hour is about to strike, the head—so remarkably ugly as to have given the clock the name of the *monstrous head*—opens its very large mouth. A figure representing an old pilgrim offers it a golden apple on the end of a stick; but just when poor Hans (so was the fool called) is about to close his mouth to masticate and swallow the apple, the pilgrim suddenly withdraws it. On the left of the head is a singing angel (the device of the city of Jena), holding in one hand a book, which he raises towards his eyes whenever the hours strike, and with the other hand he rings a bell.

The town of Niort, in Poitou, possessed also an extraordinary clock, ornamented with a great number of allegorical figures—the work of Bouhain, in 1570. A much more famous clock was that of Strasburg (Fig. 152), constructed in 1573, and which was long considered a wonder. It was entirely restored in 1842 by M. Schwilgué. Angelo Rocca, in his "Commentarium de Campanis," gives a description of it. Its most important feature was a moving sphere, whereon were represented the planets and the





CLOCK OF DAMASCENED IRON AND WATCHES

of the Fifteenth and Sixteenth Centuries

constellations, which completed its rotation in three hundred and sixty-five days. On two sides of the dial and below it the principal festivals of the year and solemnities of the Church were represented by allegorical figures. Other dials, distributed symmetrically on the façade of the tower in which the clock is situated, marked the days of the week, the date of the month, the signs of the zodiac, the phases of the moon, the rising and setting of the sun, &c. Every hour two angels sounded the trumpet. When the concert

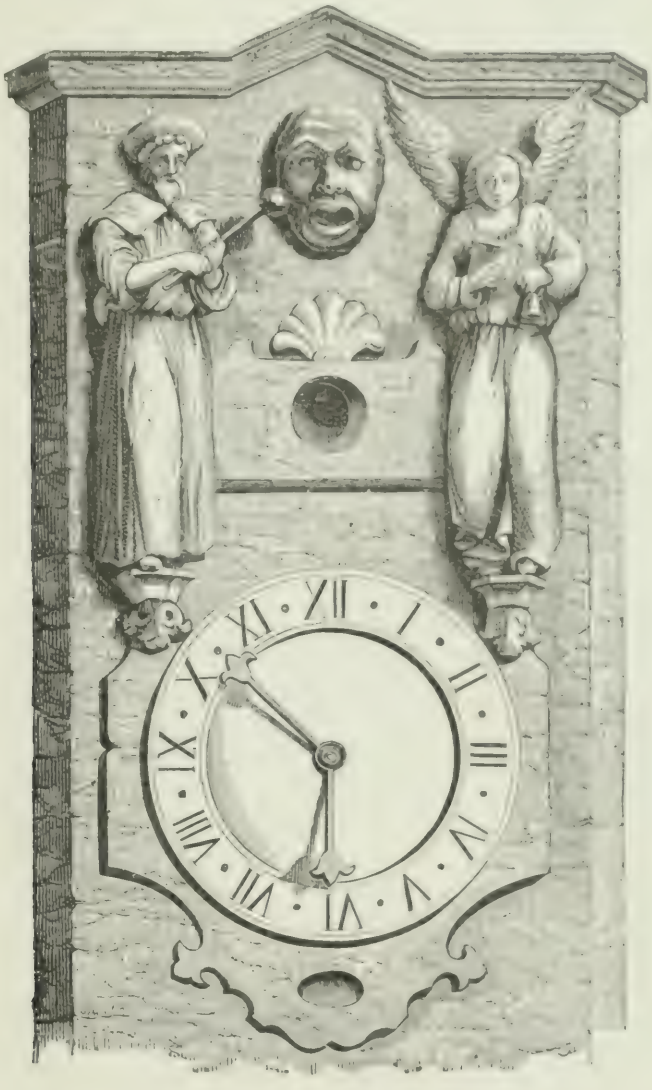


Fig. 151.—Clock of Jena, in Germany. (Fifteenth Century.)

was finished, the bell tolled; then immediately a cock, perched on the summit, spread his wings and crowed. The striking machinery, by means of movable trap doors, cylinders, and springs concealed in the interior of the clock, set in motion a considerable number of automata, executed with much skill. Angelo Rocca adds that the completion of this *chef-d'œuvre* was attributed to Nicolas Copernicus; and that when this able mechanician had finished his work, the city authorities had his eyes put out in order to prevent him making a similar clock for any other city.

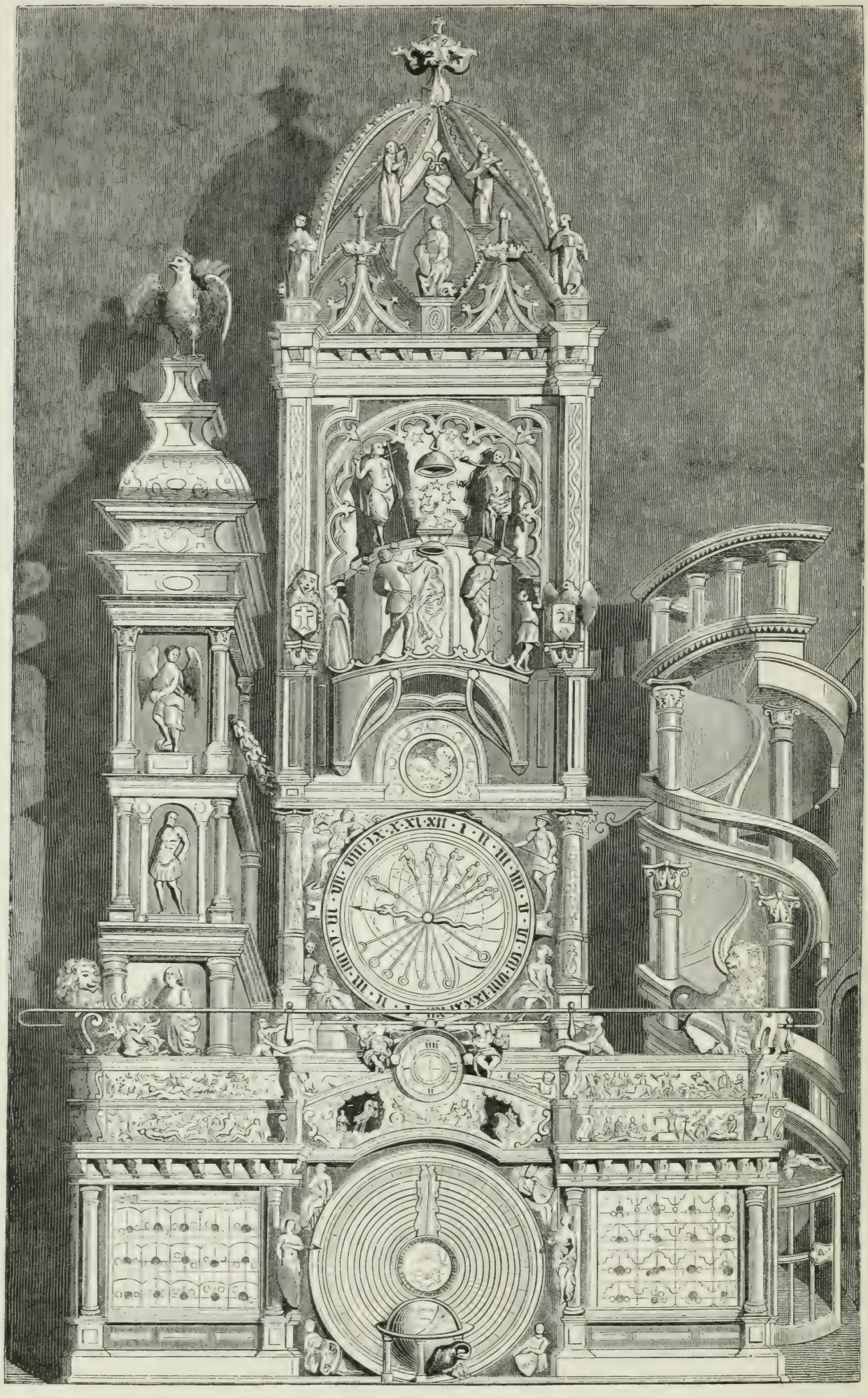


Fig. 152.—Astronomical Clock in the Cathedral at Strasburg, constructed in 1573.

A similar tradition is attached to the history of another clock, still in existence, which was not less celebrated than that of Strasburg. We refer to that in the Church of St. John at Lyons, made in 1598 by Nicholas Lippius, a clockmaker of Basle, repaired and enlarged subsequently by Nourisson, an artisan of Lyons. Only the horary mechanism now acts; but the clock is not on that account neglected by visitors, to whom the worthy attendants still repeat in perfect faith that Lippius was put to death as soon as he had finished his *chef-d'œuvre.*

To these famous clocks must be added those of St. Lambert at Liége, of Nuremberg, of Augsburg, and of Basle; that of Medina del Campo, in Spain, and those which, in the reign of Charles I., or during the Protectorship of Cromwell, were manufactured and placed in England at

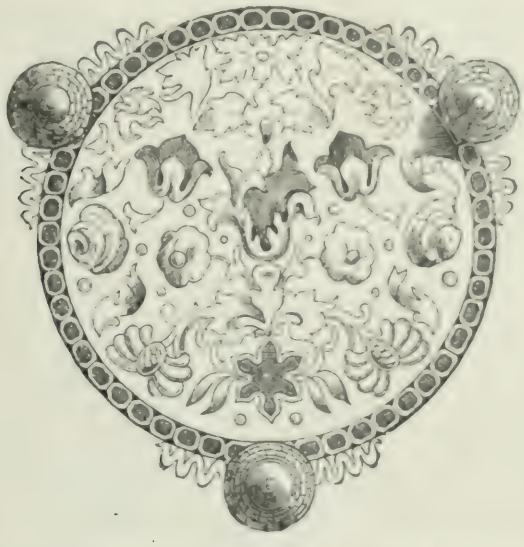


Fig. 153.—Top of an Hour-Glass, engraved and gilt. (A French Work of the Sixteenth Century.)

St. Dunstan's in London,* in the Cathedral of Canterbury, in Edinburgh, and in Glasgow, &c.

Before concluding, and to do justice to a century of decline, we are bound to acknowledge that some years before the death of Cardinal Richelieu—that is to say, from 1630 to 1640—artists of ability made praiseworthy efforts to create a new departure in horology. But their attention was given rather to improvement of the mechanism than to beauty and thoroughness of workmanship. The period of great constructions and delicate marvels was past. Ornamental *jacquemarts* were no longer placed in belfries. Mechanical *chefs-d'œuvre* were no longer set in frail gems. The time was still far off when, laying down the sceptre of the empire, the conqueror of Francis I. retired to a cloister and employed himself in the construction of complicated clockwork. Charles V. had as

* This clock was removed when St. Dunstan's Church, in Fleet Street, was rebuilt.—D.

assistant, if not as teacher, the learned mathematician, Jannellus Turianus, whom he had induced to join him in his retreat. It is said that he enjoyed nothing so much as seeing the monks of Saint-Just standing amazed before his alarum watches and automaton clocks; but it is also stated that he was in despair at being obliged to admit that it was as impossible to establish perfect concord among clocks as among men.

In truth, Galileo had not yet arrived to observe and formulate the laws of the pendulum, which Huygens was happily to apply to the movements of horology.

PLAYING-CARDS.

Supposed Date of their Invention.—Existed in India in the Twelfth Century.—Their connection with the Game of Chess.—Brought into Europe after the Crusades.—First mention of a Game with Cards in 1372.—Cards well known in the Fifteenth Century in Spain, Germany, and France, under the name of *Tarots*.—Cards called *Charles the Sixth's* must have been *Tarots*.—Ancient Cards, French, Italian, and German.—Cards contributing to the Invention of Wood-Engraving and Printing.



THE origin of playing-cards has for many years past formed a special subject of investigation among scholars and antiquarians. For, however trifling the matter may appear in itself, this curious point is connected with two of the most important inventions of modern times —engraving and printing.

We must not, however, take upon ourselves to assert too positively that all the profound researches, persevering study, and ingenious deductions which have been applied to the subject have entirely succeeded in solving the points in doubt. Nevertheless, a certain degree of light has been thrown upon them, by which we shall endeavour to profit.

The question is, at what date are we to fix the invention of playing-cards, and to whom are we to attribute it? In order to answer these queries, they must be divided; for, although the introduction of playing-cards into Europe may not date back beyond the fourteenth century, and the invention of our game of piquet may not have been prior to the reign of Charles VII., it is at least asserted—(1st), that playing-cards existed in India in the twelfth century; (2nd), that the ancients played at games in which certain figures and numbers were represented on dice or tablets; (3rd), that in comparatively recent times the game of chess and the game of cards presented striking affinities, proving the common origin of these two games—one connected with painting, the other with sculpture.

If we are to believe Herodotus, the Lydians, in order to beguile the sufferings of hunger during a long and cruel famine, invented nearly every

game, especially that of dice. Later authors ascribe the honour of these inventions to the Greeks, when irritated at the tedious delays of the siege of Troy. Cicero even mentions by name Pyrrhus and Palamedes as the originators of the "games in use in camps" (*ludos castrenses*). What were these games? Some say, chess; others, dice or knuckle-bones.

Certain very ancient specimens prove unquestionably that the Indian cards were nothing but a transformation of the game of chess; for the principal pieces in this game are reproduced on the cards, but in such a way that eight players instead of two could take part in it. In the game of chess there were only two armies of pawns, each having at its head a king, a vizier (who was afterwards turned into a "queen"), a knight, an elephant (which became a "bishop"), and a dromedary (afterwards a "castle"). There can be no doubt that the course and arrangement of these games were very different; but in both may be found an original affinity in the fact that they recalled to mind the terrible game of war, in which each adversary had to attack by means of stratagems, combinations, and vigilance.

We have now learned from certain authority (Abel de Rémusat, *Journal Asiatique*, September, 1822) that playing-cards, proceeding from India and China, were, like the game of chess (Fig. 154), in the hands of the Arabians and the Saracens at the commencement of the twelfth century. It is therefore almost certain they must have been brought into Europe after the Crusades, with the arts, traditions, and customs which the men of the West then derived from their Oriental antagonists. There is, however, every reason to believe that the use of cards spread but slowly; for at an epoch when the civil and ecclesiastical authorities were constantly issuing ordinances against games of chance, we do not find that cards were ever the subject of legal proceedings like dice and chess.

The first formal mention made of playing-cards is found in a manuscript chronicle of Nicolas de Covelluzzo, preserved in the archives of Viterbo, "In the year 1379," says the chronicler, "there was introduced at Viterbo the game of cards, which comes from the country of the Saracens, and is called by the latter *naïb*." There is a German book, the "Jeu d'Or," printed at Augsbourg in 1472, which declares that cards existed in Germany in the year 1300. But this evidence is not contemporary with the fact alleged; we shall, therefore, hold to the account given by the chronicler of Viterbo. But the latter, unfortunately, furnishes us with no details as to the nature of these cards. Was the game similar to that which is still extant in India? Or was it one peculiar to the Arabs? These questions are as yet unsolved. The facts, then, are, that in 1379 cards made their appearance in Europe, brought from Arabia or the country of the Saracens, and that their original name is known. The Italians for a long time called them *naïbi*. In Spain they are

still called *naypes*. If it be understood that the word *naib* in Arabic signifies "captain," we shall see that the game in question was one of a military character, like that of chess, and we shall be led to recognise in these primitive cards the *tarots* which were for a long time current in the south of Europe.

In 1387, John I., King of Castile, issued an ordinance prohibiting dice, *naypes*, and chess.

In the archives of the Audit Office in Paris, there formerly existed an account of the treasurer, Poupart, who states that, in 1392, he had "paid to Jacquemin Gringonneur, painter, for three packs of cards in gold and various



Fig. 154.—Chess-Players. Fac-simile of a Miniature of the Thirteenth Century. (MS. 7,266, Bibl. Nat., Paris.)

colours, ornamented with numerous devices, to lay before the lord the king (Charles VI.) for his amusement, 50 sols of Paris." This game, which seemed at first intended only for the amusement of the king in his mental derangement, subsequently spread so much among the people, that the provost of Paris, in an ordinance of January 22, 1397, issued a prohibition "to persons engaged in trade, from playing at tennis, bowls, dice, *cards*, and skittles, except on feast-days." We must remark that twenty-eight years previously, Charles V., in a celebrated ordinance which enumerates all the games of chance, did not mention cards.

The "Red Book" of Ulm, a manuscript register preserved in the archives of that town, contains an ordinance dated in 1397, which prohibits games with cards.

These facts are the only sure evidence which can be brought forward with a view of fixing the approximate period of the introduction of cards into Europe.

In the fifteenth century there are evident traces both of the existence and popularity of cards in Italy, Spain, Germany, and France. Their names, colours, and emblems, their number and forms, were indeed constantly changing, according to the country in which they were used and the fancy of the players. But whether called *tarots* or "French cards," they were in fact nothing but modifications of the primitive Oriental cards, and of the ancient game of chess.

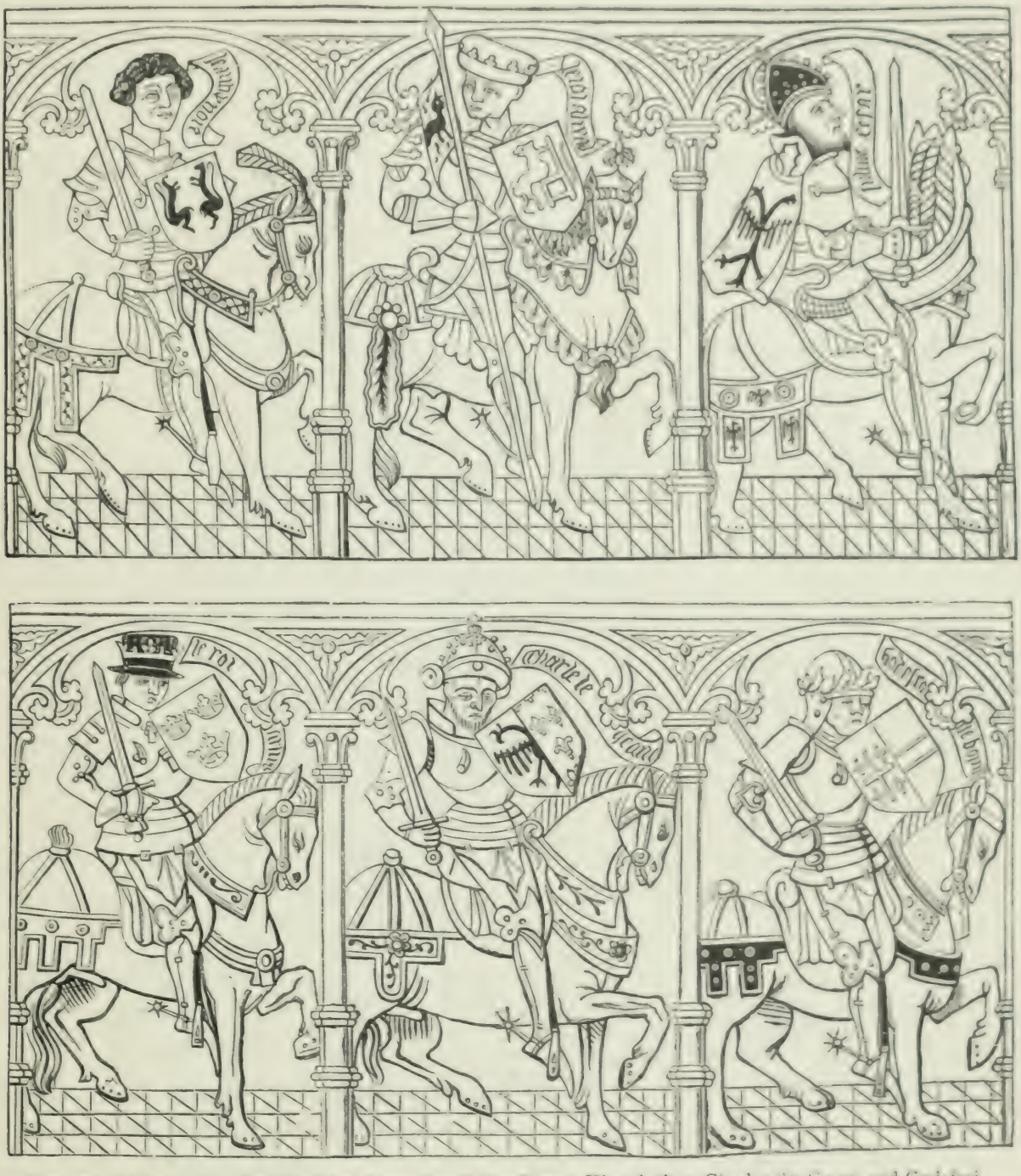
Reckoning from the fifteenth century, we meet with cards in every enumeration of games of chance; we find them proscribed and condemned in ecclesiastical and royal ordinances. The clergy raised their voices against them; but all this did not prevent the trade in them from increasing, nor their manufacture from improving. Poets and romance-writers vied with each other in speaking of them; they appeared in the miniatures in manuscripts, and also in the first attempts at engraving on wood and copper (Figs. 155 and 156). And, notwithstanding the fragile nature of the cards themselves, some have been preserved which belong to the earliest years of the fifteenth century.

As we have already seen, cards had, in principle, been classed among the number of childish games; but it may be safely asserted that this could not have long been the case, else how could we explain the legal strictures and the ecclesiastical anathemas of which they were the subject?

St. Bernard, for example, speaking on the 5th of March, 1423, to the crowd assembled in front of a church at Siena, inveighed with so much energy against games of chance, that all who heard ran at once and fetched their dice, chess, and *cards*, and burnt them on the very spot. But, adds the chronicle, there was a card-maker who, being ruined by the sermon of the saint, went to seek him, and with a flood of tears said to him: "Father, I am a maker of cards, and I have no other trade by which to live. By preventing me from following my trade, you condemn me to die of hunger." "If painting is all you are capable of," replied the preacher, "paint this picture." And he showed him an image of a radiating sun, in the centre of which shone the monogram of Christ—I. H. S. The artizan followed his advice, and soon made his fortune by painting this representation, which was adopted by St. Bernard as his device.

Although in every direction similar censures were directed against cards,

they nevertheless did not fail to come much into fashion, especially in Italy; and to have a considerable sale. Thus, in 1441, we find the master card-makers at Venice, "who formed a rather numerous association," claiming and obtaining from the senate a kind of prohibitory order against "the



Figs. 155 and 156.—Jean Dunois, King Alexander, Julius Cæsar, King Arthur, Charles the Great, and Godefroi de Bouillon. From ancient coloured Wood-Engravings; prints analogous to the first Playing-Cards of the Fifteenth Century. (Bibl. Nat., Paris, Department of Manuscripts.)

large quantity of *painted* and *printed* cards which were made out of Venice and were introduced into the town, to the great detriment of their art." It is important to notice that mention is made here of *printed* as well as of painted cards. The fact is, that at this date, not only did all the cities

in Italy make their own cards, but in consequence of the invention of wood-engraving, Germany and Holland exported a large quantity of them. We must also point out that documents of the same date appear to establish a distinction between the primitive *naïbi* and cards properly so called, without, however, affording any detailed characteristics of either. It is, however, known that prior to the year 1419, one François Fibbia, a noble of Pisa, who died in exile at Bologna, obtained from the "reformers" of this city, on the score of his being the inventor of the game of *tarrochino*, the right of placing his escutcheon of arms on the "queen *de bâton*," and that of his wife's arms on the "queen *de denier*." *Bâtons*, *deniers*, with *coupes* and *épées*, were then the suits of Italian cards, as *carreau* (diamond), *trèfle* (club), *cœur* (heart), and *pique* (spade), were those of the French cards.

No original specimen has been preserved of the *tarots* (*tarrochi*, *tarrochini*) or Italian cards of this epoch; but we possess a pack engraved about 1460, which is known to be an exact copy of them. Added to this, Raphael Maffei, who lived at the end of the fifteenth century, has left in his "Commentaries" a description of *tarots*, which were, he says, "a new invention"—in comparison, doubtless, with the origin of playing-cards. From these two documents—though they present some differences—we may gather that the pack of *tarots* was then composed of four or five series or suits, each of ten cards, bearing consecutive numbers, and presenting so many *deniers*, *bâtons*, *coupes*, and *épées*, equal in number to that of the card. To these series we must add a whole assortment of figures, representing the *King*, the *Queen*, the *Knight*, the *Foot-traveller*, the *World*, *Justice*, an *Angel*, the *Sun*, the *Devil*, a *Castle*, *Death*, a *Gibbet*, the *Pope*, *Love*, a *Buffoon* (Fig. 157), &c.

It is evident that *tarots* were current in France long before the invention of the game of piquet, which is unquestionably of French origin; and among these *tarots* we must class the cards that are called those of Charles VI. (Figs. 158 and 159), and are now preserved in the Print-Room of the Bibliothèque Nationale in Paris; these may be considered as the oldest to be found in any collection, either public or private. The Abbé de Longuerue states that he saw the pack with all its cards complete; but only seventeen have been preserved to our day. These cards are painted with delicacy, like miniatures in manuscripts, on a gilt ground, filled with dots forming a perforated ornamentation; they are also surrounded by a silvered border in which a similar dotting depicts a spirally twisted ribbon. This dotting is doubtless the *tare*, a kind of goffering produced by small holes pricked out and arranged in compartments, to which the *tarots* owe their names, and of which our present cards still retain a kind of reminiscence, in their backs being covered with arabesques

or dotted over in black or various colours. These cards were about seven inches long and three and a half inches wide, and were painted in distemper on cardboard ·039 inch thick. The composition of them is ingenious and to some extent skilful, the drawing correct and full of character, and the colouring or illumination brilliant.

Among the subjects they represent are some which deserve all the more attention, because they can hardly fail to recall to mind a conception somewhat similar to that of the "Dance of Death," that terrible



Fig. 157.—The Buffoon, a Card from a Pack of *Tarots*. Fifteenth Century.

"morality" which, dating from this epoch, was destined to increase more and more in popularity. Thus, for instance, by the side of the *Emperor*, who is covered with silver armour and holds the globe and the sceptre, a *Hermit* makes his appearance as an old man muffled in a cowl and holding up an hour-glass, an emblem of the rapidity of time. Then we have the *Pope*, who, with the tiara on his head, sits between two cardinals; but *Death* is also there, mounted on a grey horse with a rough and shaggy coat, and sweeping down with his scythe kings, popes, bishops, and other great men of the earth. If we see *Love*, represented by three

couples of lovers who embrace as they converse, while two Cupids dart at them their arrows from a cloud above, we also see a *Gibbet*, on which hangs a gambler suspended by one foot, and still holding in his hand a bag of money. An *Esquire*, clothed in gold and scarlet, rides gallantly along, proudly waving his sword; a *Chariot* bears in triumph an officer in full armour; a *Fool* places his cap and bells under his arm that he may count upon his fingers. Finally, the last trumpets are waking the dead, who come out of their graves to appear at the Last Judgment.

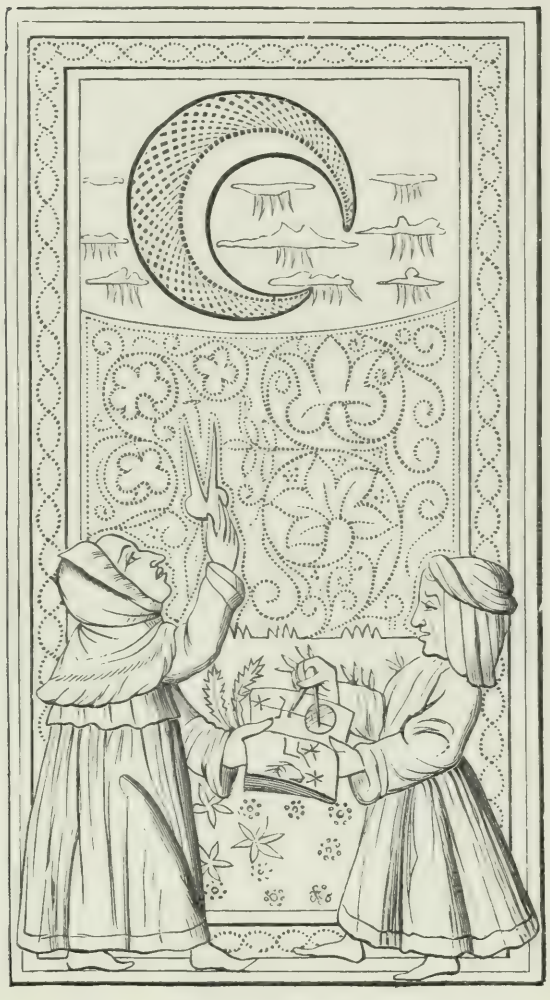


Fig. 158.—The Moon.

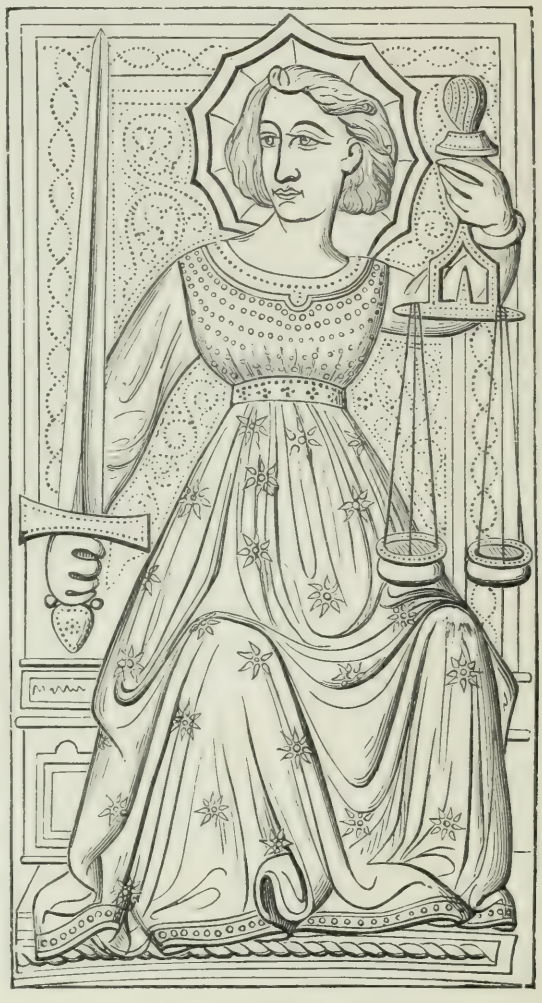


Fig. 159.—Justice.

(Cards taken from the Pack, said to be of Charles VI., preserved in the Bibl. Nat., Paris.)

Most of these allegorical subjects have been retained in the *tarots*, which include, independently of the sixteen figures of our piquet-pack, twenty-two cards, representing the *Emperor*, the *Lover*, the *Chariot*, the *Hermit*, the *Gibbet*, *Death*, the *House of God*, the *End of the World*, &c.

We should scarcely be justified in imagining that these *tarots*, presenting as they did a picture of life so gloomily philosophical from a Christian point of view, could have enjoyed any great favour in the centre of a

frivolous and corrupt court, devoted to little else but *fêtes*, masquerades, and singing; this, too, at a time when the State, a prey to every kind of intrigue, was falling into ruin, and the voice of insurrection was surging up among a people burdened by taxes, and decimated by pestilence and famine. On the other hand these *tarots* might well please the imagination of certain good people who, having been deprived of their property in some of the disturbances incidental to these times, could not fail to accept as a consolation such emblematical representations of life and death. Artists of every kind tried their best to reproduce them in all forms; and as these designs found a place even in the ornaments of the female sex, it was scarcely probable that playing-cards would form an exception.

We are in possession of the remains of two ancient packs of cards, produced by means of engraved plates; they were discovered, like most cards of this date which have come to light, in the bindings of books of the fifteenth century. These cards, which belong to the reign of Charles VII., are essentially French in their character. We find in them the king, the queen, and the knave of each suit, as in our present pack of piquet cards. In one of these ancient packs we notice, however, traces of the Saracenic origin of the *naïbi*, the Mussulman "crescent" being substituted for the "diamond," while the "club" is depicted in the Arabian or Moorish fashion; that is, with four similar branches. There is also another peculiarity: the "king of hearts" is represented by a kind of savage, or hairy ape, leaning upon a knotty stick. The "queen" of the same suit is likewise covered with hair, and holds a torch in her hand. The "knave of clubs," who is well fitted to serve as an escort to the "king" and "queen of hearts," is also covered with hair, and carries a knotty stick on his shoulder. We may, besides, notice the legs of a fourth hairy personage among those which have been separated from their bodies by the knife of the bookbinder. But, with the exception of these, all the other personages are clothed according to the fashion or the etiquette which prevailed at the court of Charles VII. The "queen of crescents" is represented in a costume similar to that of Mary of Anjou, the wife of the king; or in that of Gérarde Gassinel, his mistress. The representations of kings, the hairy one excepted, are identical with those we have of Charles VII. himself, or the nobles of his suite. Their costume was a velvet hat surmounted by the crown ornamented with fleurs-de-lis; a robe open in front and lined with ermine or miniver, a tight doublet, and close stockings. The "knaves" are copied from the pages and sergeants-at-arms of the period; one wears the plumed flat cap and long cloak; another, on the contrary, is clad in a short dress, and stands erect in his close-fitting doublet and tightly drawn breeches. The latter displays, written on a streamer which he is unrolling, the name of the card-

maker, "F. Clerc." These are certainly cards of French invention, or at any rate of French manufacture; but what explanation are we to give of the presence of the savage "king" and "queen" and the "hairy knave,"



Fig. 160.—Charles VI. on his Throne, from a Miniature in the MS. of the Kings of France. (Bibl. Nat., Paris.)

among the kings, queens, and knaves all dressed according to the fashion of the time of Charles VII.? We may, perhaps, find a satisfactory reply by referring to the chronicles of the preceding reign.

On the 29th January, 1392, there was a grand *fête* at the mansion of

Queen Blanche in honour of the marriage of a Chevalier de Vermandois with one of the queen's ladies. The king, Charles VI., had only just recovered from his mental malady. One of his favourites, Hugonin de Janzay, projected an entertainment in which the king and five lords were to take a part. "It was," says Juvénal des Ursins, a "masquerade of wild men chained together, and all shaggy; their dress was made to fit close to their body, and was rendered rough by flax and tow fastened on by resinous pitch, greased so as to shine the better." Froissart, who was an eye-witness of this *fête*, says that the six actors in the *ballet* entered the hall yelling and shaking their chains. As it was not known who these maskers were, the Duke of Orleans, brother of the king, wishing to find out, took a lighted torch from the hands of his servant, and held it so close to one of these strange personages that "the heat of the fire caught the flax." The king was fortunately separated from his companions, who were all burned, with the exception of one only, who threw himself into a tub full of water. Although Charles VI. escaped from this peril, he was deeply affected by the thought of the danger to which he had been exposed, and the result was a relapse into his former insanity.

This fearful *ballet des ardents* left such an impression on the minds of people generally, that seventy years afterwards a German engraver made it the subject of a print. Should we, then, be venturing on an inadmissible hypothesis if we attribute to a cardmaker of this epoch the idea of introducing the same subject in a pack of cards? which, as is abundantly proved, was modified according to the whim of the artist. In order to justify the costume of a female savage and the torch which are given to the "queen of hearts," we must not forget that Isabel of Bavaria, consort of Charles VI., is accused of having assisted in devising this fatal masquerade, which was intended to get rid of the king; and of having taken as her accomplice the Duke of Orleans, her brother-in-law, who is said to have purposely set fire to the clothing of these pretended wild men, among whom was the king.

The second pack, or fragment of a pack, which dates back to this epoch, presents a similarity to our present cards of a yet more striking nature, at least in the characters and costumes of the figures, although the names and devices of the personages still are suggestive of their Saracenic origin. We must remark, under this head, that for several centuries the names coupled with the different personages were incessantly varying. In this pack we find "kings," "queens," and "knaves" of clubs, hearts, spades, and diamonds; the Saracenic crescent has disappeared. The "kings" are all holding sceptres, and the "queens" carry flowers. Everything in the representations is not only in harmony with the fashions of the period, but in addition to

this, there are no violations either of the laws of heraldry or of the usages of chivalry.

According to tradition, this pack, the true piquet-pack, which superseded the Italian *tarots* and the cards of Charles VI., and soon became generally used in France, was the invention of Etienne Vignoles, called La Hire, one of the bravest and most active soldiers of that period. The tradition has a right to our respect, for the mere examination of this piquet-pack proves that it must have been the work of some accomplished *chevalier*, or at least of a mind profoundly imbued with the manners and customs of chivalry. But,



Fig. 161.—Ancient French Card of the Fifteenth Century. (Bibl. Nat., Paris.)



Fig. 162.—Specimen of a Pack of Cards of the Sixteenth Century. (Bibl. Nat., Paris.)

without any wish to exclude La Hire, who, as the historians say, "always had his helmet on his head and his lance in his hand, ready to attack the English, and never rested till he died of his wounds," we are led rather to ascribe the honour of this ingenious invention to one of his contemporaries, Etienne Chevalier, secretary and treasurer to the king, who was distinguished by his skill in designing. Jacques Cœur, whose commercial relations with the East brought upon him the accusation of having "sent arms to the Saracens," might well have become the importer of Asiatic cards into France, and Chevalier might then have amused himself by applying

devices to them, or, as was then said, by *moralising* or symbolising them. In India it had been the game of the vizier and of war; the royal treasurer turned it into a pack having reference to the knight and chivalry. In the first place he placed on it his own armorial bearings, the unicorn, which figures in several ancient packs of cards. He did not forget the allusive arms of Jacques Cœur, and substituted "hearts" for the *coupes*. He made the "clubs" imitate the heraldic flower of Agnes Sorel; and also changed the *deniers* into diamonds or arrow-heads (Fig. 161), and the *épées* into spades, to do honour to the two brothers Jean and Gaspard Bureau, grand-masters of artillery in France.

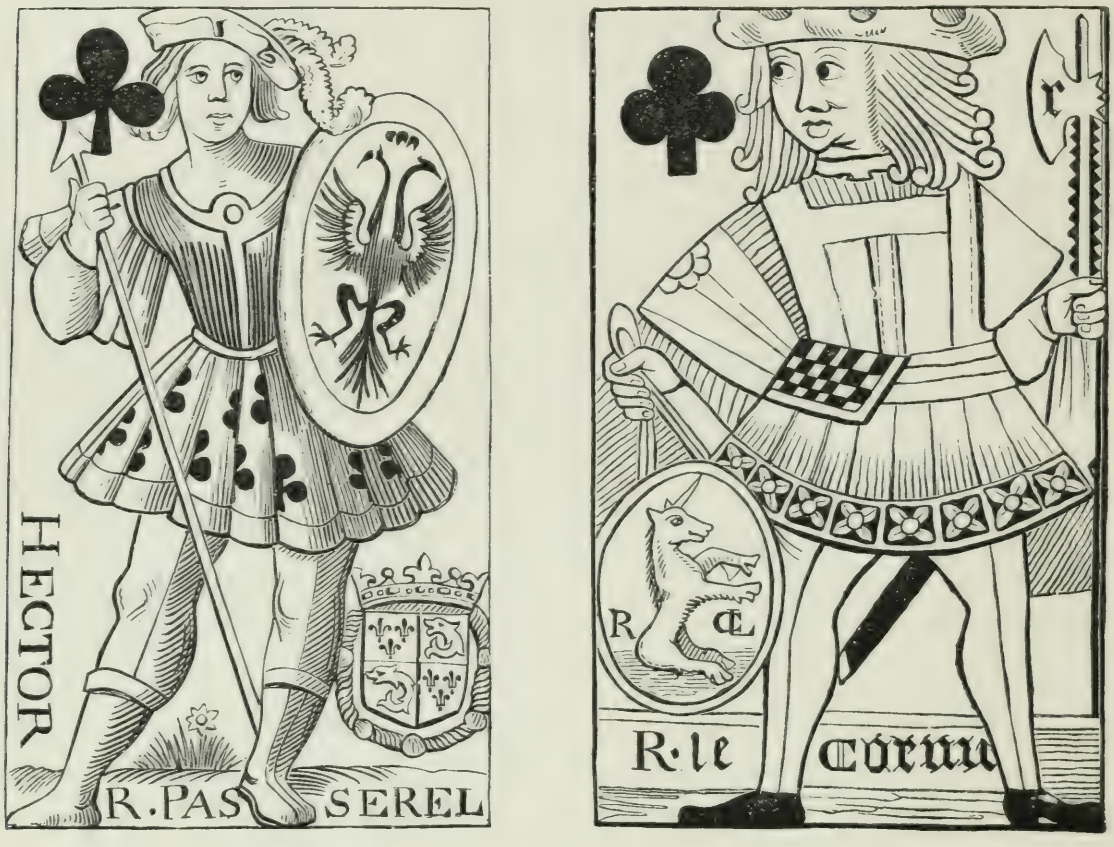
Etienne Chevalier, as the most skilful designer of emblems of the period, was eminently capable of substituting, in playing-cards, ladies or queens for the Oriental "viziers" or Italian "knights" which on the *tarots* figured alone among the "kings" and "knaves." We must, however, repeat that we have no intention of depriving La Hire of the honour of the invention, and only hazard a supposition in addition to the opinion generally received.

These cards, which bear all the characteristics of the reign of Charles VII., must be looked upon as the first attempts at wood-engraving, and at printing by means of engraved blocks. They were probably executed between 1420 and 1440, that is to say, prior to most of the known xylographic productions. Playing-cards, therefore, served as a kind of introduction or prelude to printing from engraved blocks, an invention which considerably preceded the printing from movable characters.

When, however, we observe that so early as the middle of the fifteenth century playing-cards were spread all over Europe, it is but natural to imagine that some economical plan of manufacture had been discovered and employed. Thus, as we have already mentioned, Jacquemin Gringonneur, in 1392, was paid fifty-six sols of Paris, that is about £7 1*s.* 8*d.* of our present money, for three packs of *tarots*, painted for the King of France. One single pack of *tarots*, admirably painted, about the year 1415, by Marziano, secretary to the Duke of Milan, cost one thousand five hundred golden crowns (about £625); but in 1454, a pack of cards intended for the Dauphin of France cost no more than five *sous of Tours* (about eleven or twelve shillings). In the interval between 1392 and 1454 means had been discovered of making playing-cards at a cheap rate, and of converting them into an object of trade; mercers were accustomed to sell them together with the "pins," which then took the place of copper and silver counters for play; hence the French proverb, "Tirer son épingle du jeu" (to get out of a scrape).

Although the use of playing-cards continued to extend more and more, we must not imagine that they had ceased to be the subject of prohibitory

and condemnatory ordinances on the part of the civil and ecclesiastical authorities. On the contrary, a long list might be made of the decrees launched against cards themselves and those that used them. Princes and lords, as a matter of right, felt themselves above these prohibitions; the lower orders and the dissolute did not fail to infringe them. It was nevertheless the case, that in the face of these constantly renewed prohibitions, the manufacture of playing-cards could only be developed, or rather perhaps be carried on, in some indirect mode. Thus we find the business at first was concealed, as it were, under that of a stationer or illuminator. Not until December, 1581—that is, in the reign of Henry III.—do we find the first



Figs. 163 and 164.—The "Knave of Clubs" in the Packs of Cards of R. Passerel and R. Le Cornu. (Sixteenth Century. Bibl. Nat., Paris.)

regulation fixing the statutes of the "master-cardmakers." These statutes, confirmed by letters patent in 1584 and 1613, remained in force down to the French Revolution. In the confirmation of corporate privileges granted at the latter date, it is laid down as a rule that henceforth master-cardmakers should be bound to place their names, surnames, signs, and devices on the "knave of clubs" (Figs. 163, 164) of every pack of cards. This prescription appears to have done nothing more than legalise an old custom—a fact which may be proved by an examination of the curious collection of ancient cards in the Print-Room of the Bibliothèque Nationale. We have already stated that for a period of many years the names given to the various personages in

the pack varied constantly, according to the fancy of the cardmaker; a mere glance at the collection just mentioned will confirm this assertion.

The cards that might be styled those of Charles VII., which appear to us to convey some reminiscence of the *ballet des ardents*, have no inscription but the name of the cardmaker. But in the other pack of the same date the "knave of clubs" bears as a legend the word *Rolan;* the "king of clubs," *Sans Souci;* the "queen of clubs," *Tromperie;* the "king of diamonds," *Corsube;* the "queen of diamonds," *En toi je fie;* the "king of spades," *Apollin*, &c. This collection of names reveals to us the threefold influence of the Saracenic origin of playing-cards, the ideas conveyed at that period to the mind by the reading of the old romances of chivalry, and the effect of contemporary events. In fact, in the ancient epics, *Apollin* is a deity by whom the Saracens were accustomed to swear; *Corsube* is a knight of Cordova (*Corsuba*). *Sans Souci* is evidently one of those *soubriquets* which esquires acquired the habit of adopting at the time they were proving themselves worthy of the title of knight. Roland, the mighty Paladin who died at Roncevaux fighting against the Saracens, seems to have been placed upon the cards in order to oppose the memory of his glory to that of the infidel kings. The queen "*En toi je fie*" might well allude to Joan of Arc. The queen "*Tromperie*" recalls to mind Isabel of Bavaria, who was an unfaithful wife and a cruel mother; and, moreover, had betrayed France to England. All these are doubtless mere suppositions, but a critical examination of a more minute and extended character would perhaps succeed in changing some of them into unquestionable facts.

Next after the cards of the time of Charles VII. follow, as the most ancient in point of date, two packs which certainly belong to the reign of Louis XII. One of these packs does not bear any kind of legend; in the other the "king of hearts" is called *Charles;* the "king of diamonds," *Cæsar;* the "king of clubs," *Arthur;* the "king of spades," *David;* the "queen of hearts," *Héleine;* the "queen of diamonds," *Judith;* the "queen of clubs," *Rachel;* the "queen of spades," *Persabée* (doubtless for Bathsheba).

In a pack of cards belonging to the reign of Francis I., the "king of clubs" becomes *Alexander*, and the name of *Judith* is transferred to the "queen of hearts;" and for the first time (at least in the specimens which have been preserved) some of the "knaves" bear special names—the "knave of hearts" is *La Hire*, and the "knave of diamonds" *Hector of Trois* (*sic*).

A few years later, about the time of the battle of Pavia and of the king's captivity, the influence of Spanish and Italian fashions begins to affect the legends on packs of cards. It is remarked that the "knave of spades," which presents nothing in the way of a legend but the name of the card-

maker, is made to resemble Charles-Quint (Fig. 162). The three other names bear the singular denominations of *Prien Roman*, *Capita Fili*, and *Capitane Vallant*. The kings are: "hearts," *Julius Cæsar;* "diamonds," *Charles;* "clubs," *Hector;* "spades," *David*. The queens are: "hearts," *Héleine;* "diamonds," *Lucresse;* "clubs," *Pentaxlée* (Penthesilea); "spades," *Beciabée* (Bathsheba).

In the reign of Henry II., the names given to the personages come much nearer to the arrangement observed in our present cards. *Cæsar* is the "king of diamonds;" *David*, the "king of spades;" *Alexander*, the "king of clubs." *Rachel* is the "queen of diamonds;" *Argine*, of "clubs;" *Pallas*, of "spades." *Hogier*, *Hector of Troy*, and *La Hire*, are the "knaves" of "spades," "diamonds," and "hearts," respectively.

At the time of Henry III., who devoted himself much more to regulating the fashions than to governing his kingdom, and was the first to grant statutes to the association of cardmakers, the pack of cards became the mirror of the generally extravagant fashions. The "kings" have the pointed beard, the starched collar, the plumed hat, the breeches puffing out round the loins, the slashed doublet, and the tight-fitting hose. The "queens" have their hair drawn back and crisped, the dress close round the body, and made *à vertugarde* (in the form of a hoop-petticoat). We see a *Dido*, an *Elizabeth*, and a *Clotilde*, make their appearance in the respective characters of queens of "diamonds," "hearts," and "spades." Among the kings figure *Constantine*, *Augustus*, and *Solomon*.

Henri-Quatre mounts the throne, and the cards again reflect the aspect of his court. But soon *Astrea* and a whole *cortége* of tender and gallant heroes begin to assume an influence over refined minds, and we then find *Cyrus* and *Semiramis* as "king and queen" of diamonds; *Roxana* is the "queen of hearts" (Fig. 165), *Ninus* the "king of spades," &c.

In the regency of Marie de Medicis, in the reign of Louis XIII., or rather of Richelieu, in the time of Anne of Austria and Louis XIV., playing-cards continued to reflect the character of the period, following the whim of the court or the fancy of the cardmaker. At a certain time they began to take an Italian character. The "king of diamonds" was called *Carel;* his queen, *Lucresi;* the "queen of spades," *Barbera;* the "queen of clubs," *Penthamée;* the "knave of diamonds," *capit. Melu.*

A vast field of investigation would lie before us if, in tracing out the detailed history of these numerous variations, we were to endeavour to distinguish and settle the different causes which gave rise to them. One fact must certainly strike any one devoting himself to such inquiry; he would see that, in contradistinction to the changes which have affected the personages on the cards and their names, a continuous state of stability

has been the characteristic of the four suits in the French cards or the piquet-pack, which were adopted from the very commencement, and that no attempt has ever been made against their arrangement and nature. *Cœur* (hearts), *carreau* (diamonds), *trèfle* (clubs), and *pique* (spades)—these were the divisions established by La Hire or Chevalier, and they are still faithfully maintained in the present day, although at various times endeavours have been made to define their symbolical signification.

For a long time the opinion of Father Menestrier was the prevalent one; that "hearts" were an emblem of the clergy or the choir (*chœur*); "diamonds,"



Fig. 165.—Roxana, Queen of Hearts.
(Specimen of the Cards of the time of Henry IV.)

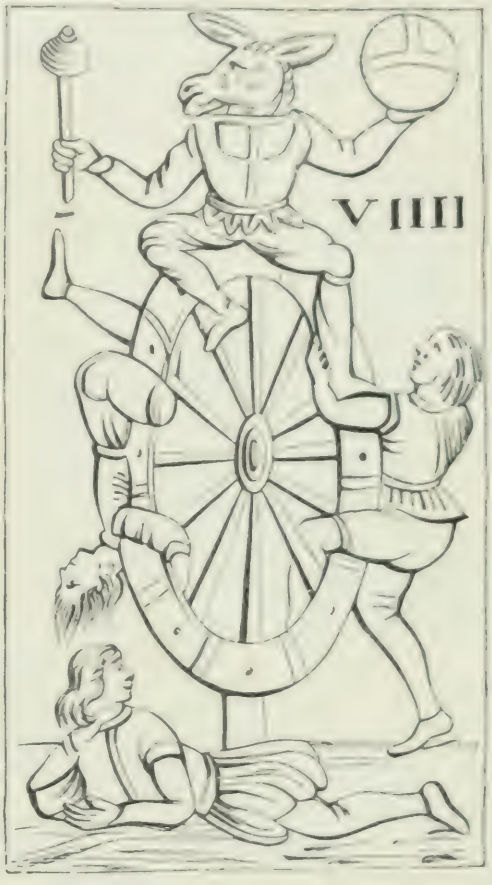


Fig. 166.—Card of Italian *Tarots*, from the Pack of the *minchiate*.
(Collection of Playing-Cards, Bibl. Nat., Paris.)

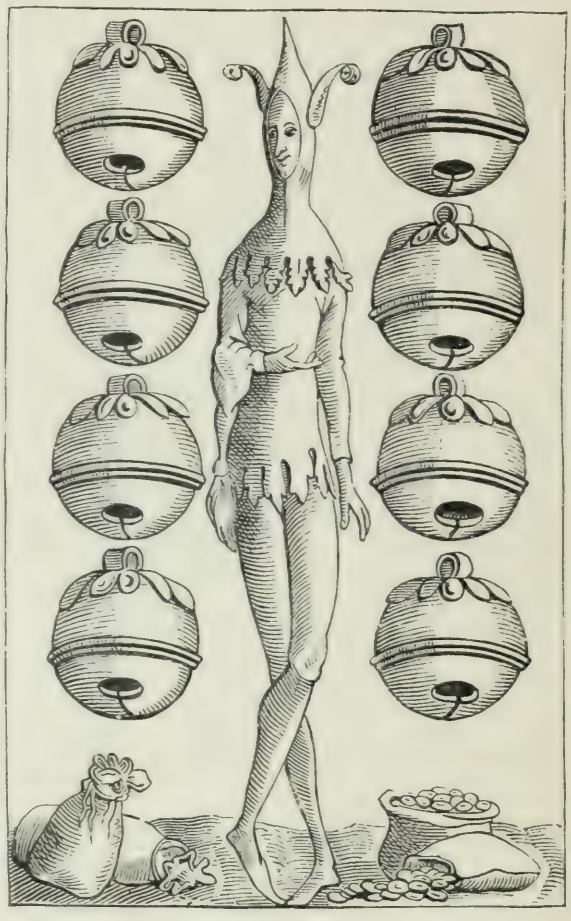
of the citizens, who had their rooms paved with square tiles; "clubs," of labourers; and "spades," of military men. But Menestrier was in error. A much clearer view of the matter was taken by Father Daniel, who, like all sensible interpreters, recognising in cards a game of an essentially military character, asserted that "hearts" denoted the courage of the commanders and soldiers; "clubs," *trèfle*—"trefoil"—the stores of forage; "spades" and "diamonds," the magazines of arms. This was a view which, as we think, comes much closer to the real interpretation of the suits; and Bullet was still nearer the mark when he recognised *offensive* arms in "clubs" and

"spades," and *defensive* arms in "hearts" and "diamonds." The first were the sword and the lance; the second, the target and the shield.

But in order to do full honour to French cards, we must not exclude from our attention the *tarots*, which preceded our game of piquet, and continued to be simultaneously used even in France.

The Spanish and Italian cardmakers, who had been nearly always established in France, made a large quantity of *tarots* (Fig. 166); but they made a certain concession to French gallantry by substituting "queens" for the "cavaliers" of their national game. We must remark here, that even at the





Figs. 167 and 168.—The "Three" and "Eight" of "Bells." German Cards of the Sixteenth Century. (Bibl. Nat. of Paris. Print-Room.)

epoch of the conquests of Charles VIII. and Louis XII., French cards with the four "queens" replacing the "cavaliers" never succeeded in nationalising themselves in Italy, and still less in Spain; on the contrary, the fact was that as regards this point of fashion, the vanquished people obtained the advantage over their conquerors, and the *tarots* came into full favour among the victorious soldiery.

The Spaniards must certainly have received the Oriental *naïb* from the Moors and Saracens a long time prior to the introduction of this game into Europe from Viterbo; but we have no written proofs which certify to the

existence of cards among the Saracens of Spain. The first document in which they are mentioned is the edict of John I., of the date of 1387, to which reference has been made. Certain *savants* have endeavoured to ascertain the signification of the four suits of the Spanish *naypes*, and have fancied that they could distinguish in them a special symbolism. In their view, the *dineros*, *copas*, *bastos*, and *spadas* denoted the four estates which composed the population: the merchants, who have the money; the priests, who hold the chalice or cup; the peasantry, who handle the staff; and the nobles, who





Figs. 169 and 170.—The "Two of Bells" and the "King of Acorns," taken from a Pack of Cards of the Sixteenth Century, designed and engraved by a German Master. (Bibl. Nat. of Paris. Print-Room.)

wear the sword. This explanation, although ingenious, does not appear to us to be based on any very solid foundation. The signs or suits of the numeral cards were fixed upon in the East, and Spain, as well as Italy, merely adopted them, without taking much trouble to penetrate into their allegorical meaning. The Spaniards became so addicted to this game that they soon preferred it to any other recreation; and we know that when the companies of Christopher Columbus, who had just discovered America, formed their first settlement at St. Domingo, they almost instantly set to work to make playing-cards out of the leaves of trees.

There can be no doubt that playing-cards very soon made their way

from Italy into Germany; but as they advanced towards the North they almost immediately lost their Oriental characteristics and Saracenic name. There is, in fact, no longer any etymological trace to be found in the old German language of the words *naïb*, *naïbi*, or *naypes*. Cards were called *Briefe*, that is, letters; the game itself *Spielbriefe*, game of letters; the earliest cardmakers were *Briefemaler*, painters of letters. The four suits of the *Briefe* were neither Italian nor French in character; they bore the name of *Schellen*, "bells" (Figs. 167, 168, 169), or *roth* (red), *grün* (green), and



Fig. 171.—The "Two" of a Pack of German Lansquenet Cards.
(Bibl. Nat. of Paris.)



Fig. 172.—Card from a Game of "Logic," invented by Th. Murner, and copied from his "Chartiludium Logices." (Cracow, 1507.)

Eicheln (acorns) (Fig. 170). The Germans, in their love of symbolism, had comprehended the real original signification of the game of cards, and although they introduced many marked changes, they made it their study, at least in principle, to preserve its military characteristics. Their suits depicted, it is said, the triumphs or the honours of war—the crowns of oak-leaves or ivy, the bells were the bright insignia of the German nobility, and the purple was the recompense of their valiant warriors. The Germans were careful not to admit ladies into the thoroughly warlike company of kings, captains (*ober*), and officers (*unter*). The ace was always the flag, the warlike emblem *par excellence;* in addition to



Figs. 173 to 178.—German Round-shaped Cards, with the Monogram T. W.
1. "King of Parrots." 2. "Queen of Carnations." 3. "Knave of Columbine." 4. "Knave of Hares."
5. "Three of Parrots." 6. "Ace of Carnations."
(Bibl. Nat. of Paris.)

this, the oldest game was the *Landsknecht*, or lansquenet (Fig. 171), the distinctive term of the soldier.

We are speaking here only of the earliest German cards, for, after a certain date, the essential form and emblematical rules of the pack depended on nothing but the fancy and whim of the maker or the engraver. The figures were but seldom designated by a proper name, but often bore devices in German or Latin. Among the collection of ancient cards we find one pack half German and half French, with the names of the Pagan gods. There are also several sets of cards with five suits (of fourteen cards each), among others those of "roses" and "pomegranates."

The Germans were the first to entertain the idea of applying cards to the instruction of youth, and, as it were, of moralising a game of chance by making it express all the categories of scholastic science. Thomas Murner, a Franciscan monk, and professor of philosophy, made an attempt of this kind in 1507 (Fig. 172). He designed a pack of fifty-two cards, divided into sixteen suits, corresponding to the same number of scholastic treatises; each card is covered with so many symbols that a description would resemble the setting forth of some obscure riddle. The German universities, which were far from being dismayed at a little mysticism, were only the more eager to study the arcana of grammar and logic while playing at cards. Imitations of Murner's cards were multiplied *ad infinitum*.

A game and pack of cards attributed to the celebrated Martin Schœngauer, or to one of his pupils, must also be dated in the fifteenth century. The cards are distinguished by their form, number, and design; they are round in shape, and much resemble Persian cards, are painted on ivory, and covered with arabesques, flowers, and birds. This pack, only a few pieces of which now exist in some of the German collections, was composed of fifty-two cards divided into four numeral series of nine cards each and with four figures in each series—the king, the queen, the squire, and the knave. The suits or marks are the "Hare," the "Parrot," the "Carnation," and the "Columbine." Each of the aces represents the type of the suit, and they bear philosophical devices in Latin. The four figures of the "Parrot" suit are of African character; those of the "Hare" are Asiatic or Turkish; those of the "Carnation" and the "Columbine" belong to Europe. The "kings" and "queens" are on horseback; the "squires" and "knaves" are so similar that it is difficult to distinguish them, with the exception of the knaves of "Columbine" and "Carnation" (Figs. 173 to 178).

The English also were in possession of playing-cards at an early date, obtaining them through the medium of the trade which they carried on with the Hanseatic towns and Holland; but they did not manufacture

cards before the end of the sixteenth century; for we know that in the reign of Queen Elizabeth the Government retained in its own hands the monopoly of playing-cards, "which were imported from abroad." The English, while adopting indiscriminately cards of a German, French,



Fig. 179.—*La Damoiselle*, from a Pack of Cards engraved by "The Master of 1466." (Bibl. Nat. of Paris. Print-Room.)

Italian, or Spanish character, gave to the *valet* the characteristic appellation of "knave."*

Wood-engraving, which was invented at the commencement of the fifteenth century, and perhaps even before, must have been applied at

* The English "knave" is only our old equivalent for the German *knabe*, and had originally the same meaning of *servant;* it is also nearly similar in sense to the French *valet*.—D.

the very first, and almost simultaneously to the reproduction of sacred pictures and the manufacture of playing-cards. Holland and Germany have contended for the honour of having been the cradle of this invention. Taking advantage of this, they have also even thought themselves warranted in laying claim to the credit of the original manufacture of cards;



Fig. 180.—The Knight, from a Pack of Cards engraved by "The Master of 1466." (Bibl. Nat. of Paris.)

whereas the fact is that all they can claim is to have been the first to produce them by some more expeditious method of making. According to the opinion of several *savants*, Laurent Coster of Haerlem was only an engraver of wood-blocks for cards and pictures before he became a printer of books. It certainly is a fact that wood-engraving, which was for a long

time limited to a few workshops in Holland and Upper Germany, owed a large share of its progress to the trade in playing-cards—which was carried on with such activity that, as we read in an old chronicle of the city of Ulm, about the year 1397, "they were in the habit of sending playing-cards in bales to Italy, Sicily, and other southern countries, to exchange for groceries and various merchandise."

A few years later, engraving on metal or copper-plate was employed in producing playing-cards of a really artistic character, among which we may mention those of "The Master of 1466" (Figs. 228 and 229), and of his anonymous rivals. The pack of cards of this engraver exists only in a small number of print-collections, and it is in every case incomplete. As far as we can judge, it must have been composed of sixty cards, consisting of forty numeral cards divided into five series, and twenty picture-cards, being four to each series. The figures are the king, queen, knight, and knave. The suits, or marks, present rather a strange selection of wild men, ferocious quadrupeds, deer, birds of prey, and various flowers. These objects are numerically grouped and tolerably well arranged, so as to allow the numbers indicated to be distinguished at first sight.

Thus, as we have seen, playing-cards made their way from India, through Arabia, to Europe, where they first arrived about the year 1370. Within a few years they spread over the Continent from the south to the north; but those who, under the influence of a passion for play, had so eagerly welcomed them, were far indeed from suspecting that this new game contained within itself the germ of two of the most beautiful inventions ever devised by the human mind—those of engraving and printing. There can be no doubt that playing-cards were in use for many a long year ere the public voice had proclaimed the almost simultaneous discovery of the arts of engraving on wood and metal, and of printing.

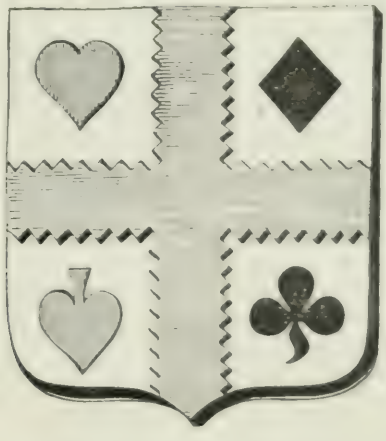


Fig. 181.—Coat of Arms of the Cardmakers of Paris.

GLASS-PAINTING.

Painting on Glass mentioned by Historians in the Third Century of our Era.—Glazed Windows at Brioude in the Sixth Century.—Coloured Glass at St. John Lateran and St. Peter's in Rome.—Church-Windows of the Twelfth and Thirteenth Centuries in France: Saint-Denis, Sens, Poitiers, Chartres, Rheims, &c.—In the Fourteenth and Fifteenth Centuries the Art was at its Zenith.—Jean Cousin.—The Célestins of Paris; Saint-Gervais; Robert Pinaigrier and his Sons.—Bernard Palissy decorates the Chapel of the Castle of Ecouen.—Foreign Art; Albert Dürer.



E have already established the fact that the art of manufacturing and colouring glass was known to the most ancient nations; and, says Champollion-Figeac, "if we study the various fragments of this fragile substance that have been handed down to our time, if we take into consideration the varied ornamentation with which they are covered, even the human figures which some of them represent, it would be difficult to assert that antiquity was unacquainted with the means of combining glass with painting. If antiquity did not produce what are now called painted windows, the real cause was that the custom of employing glass in windows did not then exist." Some few specimens of it have, however, been found in the windows of the houses exhumed at Pompeii; but this must have been an exception, for the third century of our era is the earliest date in which traces are found in history of window-glass being used in buildings; and we must bring down our researches as late as the times of St. John Chrysostom and St. Jerome (the fourth century) in order to find any reliable affirmation as to its adoption.

In the sixth century Gregory of Tours relates that a soldier broke the glass window of a church at Brioude in order to enter it secretly and commit robbery; and we know that when this prelate caused the restoration of the Church of St. Martin of Tours, he took care to fill its windows with glass "of varied colours." About the same time Fortunatus, the poet-bishop of Poitiers, highly extols the splendour of the glass window of a church in

Paris, the name of which he does not mention; but the learned investigations of Foncemagne with reference to the first kings of France inform us that the church built at Paris by Childebert I. in honour of the Holy Cross and St. Vincent, as well as the churches of Lyons and Bourges, were closed in with glass windows. Du Cange, in his "Constantinople Chrétienne," describes the glass windows of the basilica of St. Sophia, rebuilt by Justinian; and Paul, the Silentiary,* dwells with enthusiasm on the marvellous effect produced by the rays of the sun upon this assemblage of various coloured glasses.

In the eighth century, when the use of glass windows was becoming general, the basilicas of St. John Lateran and of St. Peter at Rome possessed coloured glass windows; and Charlemagne, who had caused mosaics of coloured glass to be placed in a large number of churches, did not fail to avail himself of this kind of ornament in the cathedral erected by him at Aix-la-Chapelle.

Up to this time the only method of making glass was in small pieces, generally round, a number of which, by means of a network of plaster, wooden frames, or strips of lead, were used to fill up the windows. This material being, however, very costly, it could only be introduced into edifices of great importance. Added to this, it can scarcely be a source of wonder if, at a time when all branches of art had relapsed into a sort of barbarism, and glass was only exceptionally employed in ordinary purposes, no one thought of decorating it with painted figures and ornaments.

With regard to mosaic, either in marble or coloured glass, Martial, Lucretius, and other writers of antiquity, mention it in their works. Egypt had a knowledge of it even before Greece; the Romans were accustomed to employ it in ornamenting the roofs and pavement of their temples, and even their columns and streets. Some magnificent specimens of these decorations have remained to our time, and they are considered as inseparable from the architecture of the emperors.

Some have desired to attribute the custom of employing coloured glass in mosaics to the rarity of coloured marbles. Is it not more probable that the simultaneous use of marble and glass for this purpose was the result of improvements in the art of making mosaics? for glass that, by metallic mixtures, may be brought to a variety of colours, is much more easily adapted to pictorial combinations than marble, the tints of which must be taken as they are. Seneca, alluding to the use of coloured glasses in mosaic, complains of people not being able "to walk except on precious stones;" this shows how

* *Paul, the Silentiary*, is so named from holding in the court of Justinian the office of chief of the Silentiarii, persons who had the care of the palace. He wrote a poem on the rebuilding of St. Sophia, at Constantinople, which was translated from Greek into Latin, and published with notes, by Du Cange, of Paris, in 1670.—D.

prevalent the use of rich mosaics had become in Rome. But this art must have singularly fallen into decay, for the few examples of the kind we now possess, which date from the first centuries of Christianity, are marked with a character of simplicity that fully harmonises with the rudeness of the artists of those times. Among these must be mentioned a pavement discovered at Rheims, upon which are represented the twelve signs of the zodiac, the seasons of the year, and Abraham's sacrifice; another on which are depicted Theseus and the labyrinth of Crete, in juxtaposition with David and Goliath. It is known, moreover, that there existed in the Forum of Naples a portrait in mosaic of Theodoric, king of the Goths, who had caused a representation of the Baptism of Christ to be executed, in the church of Ravenna, by the same process. Sidonius Apollinaris, describing the excessive luxury of Consentius at Narbonne, speaks of arches and pavements ornamented with mosaics. The churches of St. John Lateran, St. Clement, and St. George in Velabro, at Rome, still display mosaics of this period. Lastly, Charlemagne caused the greater part of the churches constructed by him to be ornamented with mosaics.

To return to glass-work, we find that in the time of Charles the Bald, in 863, mention is made of two artisans, Ragenat and Balderic, who became as it were the heads of the race of French glass-makers. We also learn from the chronicle of St. Benignus of Dijon, that in 1052 there existed in that church a "very ancient painted window," representing St. Paschasie, which was said to have been taken from the earlier church. We have therefore a right to conclude that at this period the custom of painting on glass had long been common.

In the tenth century glass-makers must have acquired some degree of importance, for the reigning Dukes of Normandy of that era established certain privileges in their favour; but, says Champollion-Figeac, "as all privilege was the prerogative of the order of nobility, they contrived to give them to noble families whose fortunes were precarious. Four Norman families obtained this distinction. But although it was understood that in devoting themselves to the trade these titled individuals incurred no degradation, it was never said, as is commonly believed, that the profession of this art conferred nobility; on the contrary, a proverb arose which long continued in use, namely, that 'in order to make a gentleman glass-maker, you must first take a gentleman.'"

Although painting on glass was from that time carried on with considerable activity, in many cases it was still very far from being accomplished by the processes which were destined to make it one of the most remarkable productions of art. The application of the brush to vitrifiable colours was not generally adopted. In the examples of this period that remain to our

days, we indeed find large panes cast in white glass, upon which characters were painted by the artist; over this a second pane was placed and closely cemented, so that the coloured design was held between the two.

While glass-painting was thus seeking to perfect itself, mosaic gradually declined. Only a very small number of mosaics of the tenth and eleventh centuries exist at the present day, and these, moreover, are both incorrect in design and entirely wanting in taste and colour.

In the twelfth century all the arts began to revive. The fear of the end of the world, which had thrown mankind into a strange lethargy, had disappeared. The Christian faith stirred up the zeal of its disciples. Magnificent cathedrals sprang up, and the art of the glass-maker came to the aid of architecture in order to diffuse over their interiors the light, both prismatic and harmonious, which affords the necessary calm for holy meditation. But though, in the painted windows of this period, we are forced to admire the ingenious combination of colours, the case is very different as regards the drawing and colouring of the designs. The figures are generally traced in rough, stiff lines on glass of a dull tint, which absorbs all the expression of the heads; the entire drapery of the costume is heavy; the figure is spoilt by the folds of its vestments, as if it were enclosed in a long sheath. This is the general character of the examples of that period as they are known to us (Fig. 182).

The painted windows which Suger made to adorn the abbey-church of St. Denis, some of which still exist, date from the twelfth century. The abbot made inquiries in every country, and gathered together at a great expense the best artists he could find, in order to help in this decoration. The Adoration of the Magi, the Annunciation, the History of Moses, and various allegories, are there represented in the chapel of the Virgin and those of St. Osman and St. Hilary. Among the principal pictures may be also observed a portrait of Suger himself at the feet of the Virgin. The borders surrounding the subjects may be considered as models of harmony and good arrangement of effect; but still the taste shown in the selection and combination of colours is carried to the highest point in the subjects themselves, the designs of which are very excellent.

In the Church of St. Maurice, at Angers, we find examples of a rather earlier date—perhaps the most ancient specimens of painted windows in France; these are the history of St. Catherine and that of the Virgin, which, in truth, are not equal in merit, as regards execution and taste, to the ancient windows of the Church of St. Denis.

We still have to mention some fragments contained in the Church of St. Serge, and the chapel of the Hospital, in the town of Angers; also a glass window in the Abbey of Fontevrault; another in the Church of St. Peter,

at Dreux, in which is represented Queen Anne of Brittany. We will, in conclusion, mention one of the windows of the choir in the Church of the Trinity, at Vendôme; it represents the Glorification of the Virgin, who bears



Fig. 182.—St. Timothy the Martyr. Coloured Glass of the end of the Eleventh Century, found in the Church of Neuwiller (Bas-Rhin) by M. Bœswillwald.
(From M. Lasteyrie's History of Glass-Painting.)

on her forehead an almond-shaped aureola, the form of which has furnished archæologists with a subject for long discussions; some being desirous of proving that this aureola, which does not appear to be depicted in the same

way on any other painted window, tends to show that the works of the Poitevine glass-makers, to whom it is attributed, had been subject to the influence of the Byzantine school; others assert that the almond-shaped glory is a symbol exclusively reserved for the Virgin. Before we proceed to the

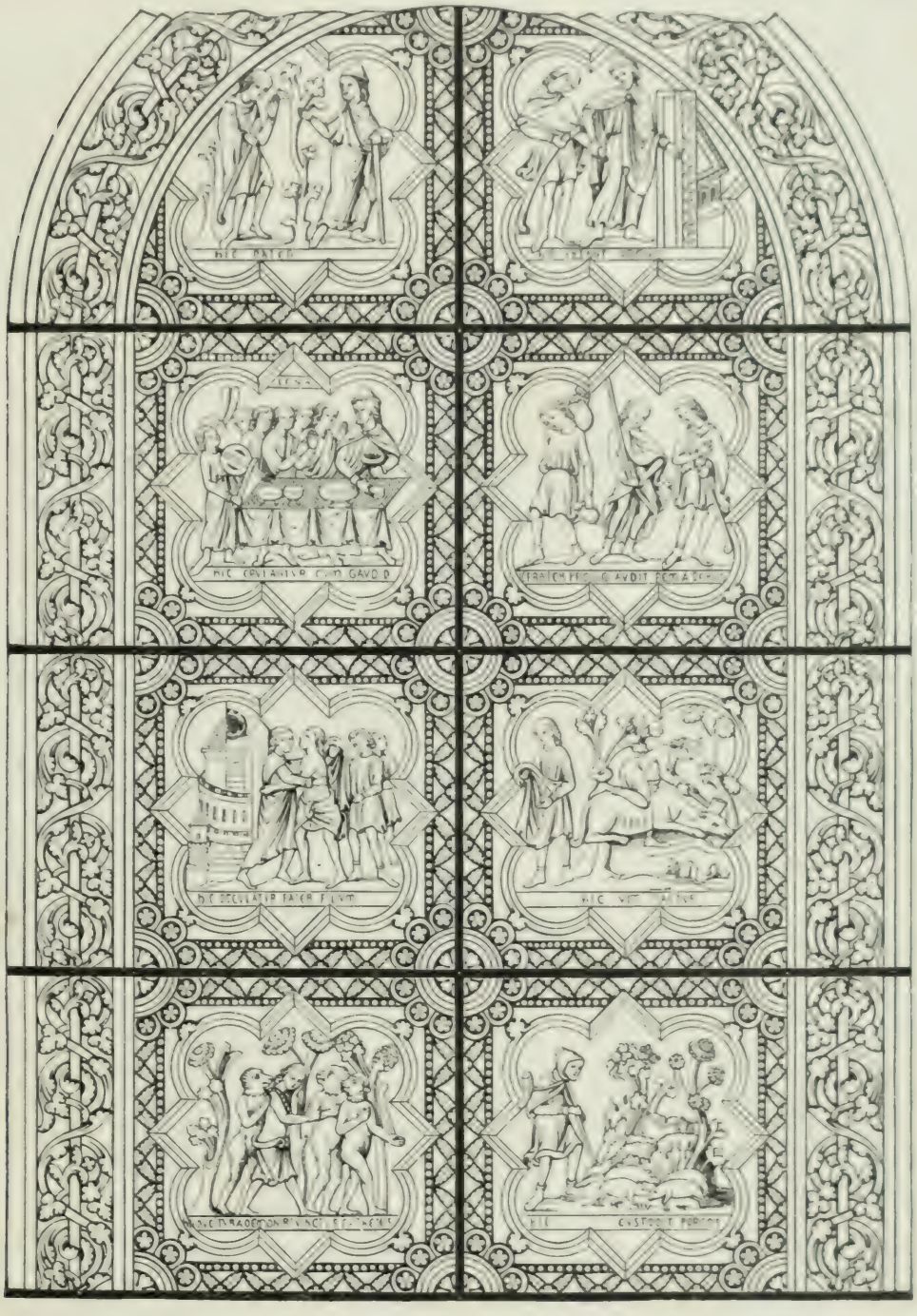


Fig. 183.—Fragment of a Church-window, representing the "Prodigal Son." Thirteenth Century. (Presented to the Cathedral of Bourges by the Guild of Tanners.)

examples handed down to us from the twelfth century, we must mention some remain of glass to be seen at Chartres, Mans, Sens, and Bourges (Fig. 183), &c. We may also add, as an incident not without interest, that a chapter of the order of the Cistercians, considering the great expense to which

painted windows led, prohibited the use of them in churches under the rule of St. Bernard.

The development of Gothic architecture gave a chance to the glass-painters of which they were not slow to avail themselves. Examples from the thirteenth century are still very numerous. There is at Poitiers some painted glass composed of small roses, and chiefly placed in one of the windows in the centre of the church and in the "Calvary" of the apse; at Sens, the legend of St. Thomas of Canterbury is represented in a number of small medallions, called *verrières legendaires;* at Mans, we find glass representing trade corporations; at Chartres, the painted glass, which is both magnificent and extensive, contains no fewer than one thousand three hundred and fifty subjects, distributed among one hundred and forty-three windows. At Rheims, the painted glass is perhaps less important, but it is remarkable both for the brilliancy of its colours and for its suitability to the style of the edifice. Bourges, Tours, Angers, and Notre-Dame in Paris, possess very beautiful specimens. The Cathedral of Rouen possesses to this day a window which bears the name of Clement of Chartres, master glazier, the first artist of this kind who has left behind him any work bearing his signature. We must, in conclusion, mention the Sainte-Chapelle, Paris, which is, perhaps, the highest achievement of the art. The designs in the windows of this last edifice are *legendary,* and although some few inaccuracies may be noticed in the figures, the fault is redeemed by the studied elegance of the ornamentation and the harmony of the colour.

In the thirteenth century "*grisaille*" first made its appearance; it was quite a new style, and has been often since employed in the borders and ornaments of painted windows. It was used in combination with the variegated glass, as we see it in the church of St. Thomas, Strasbourg, in the Cathedral of Freybourg in Briesgau, and in many churches of Bourges.

The large number of paintings on glass belonging to the thirteenth century which may still be studied in various churches, has given rise to the idea of classifying all these monuments, and arranging them under certain schools, which have been designated by the names of *Franco-Norman, Germanic,* &c. Some have even gone farther, and desired to recognise in the style peculiar to the artists of ancient France a Norman style, a Poitevin style (the latter recognisable, it is said, by the want of harmony in the colours), &c. We can hardly admit these last distinctions, and are the less inclined to do so, as those who propound them seem to base their theories rather on the defects than the good qualities of the artists. Besides, at a period in which a nobleman sometimes possessed several provinces very distant from each other—as, for example, Anjou and Provence—it might so happen that the artists he took with him to his different residences could

scarcely fail, by the union of their various works, to cause any provincial

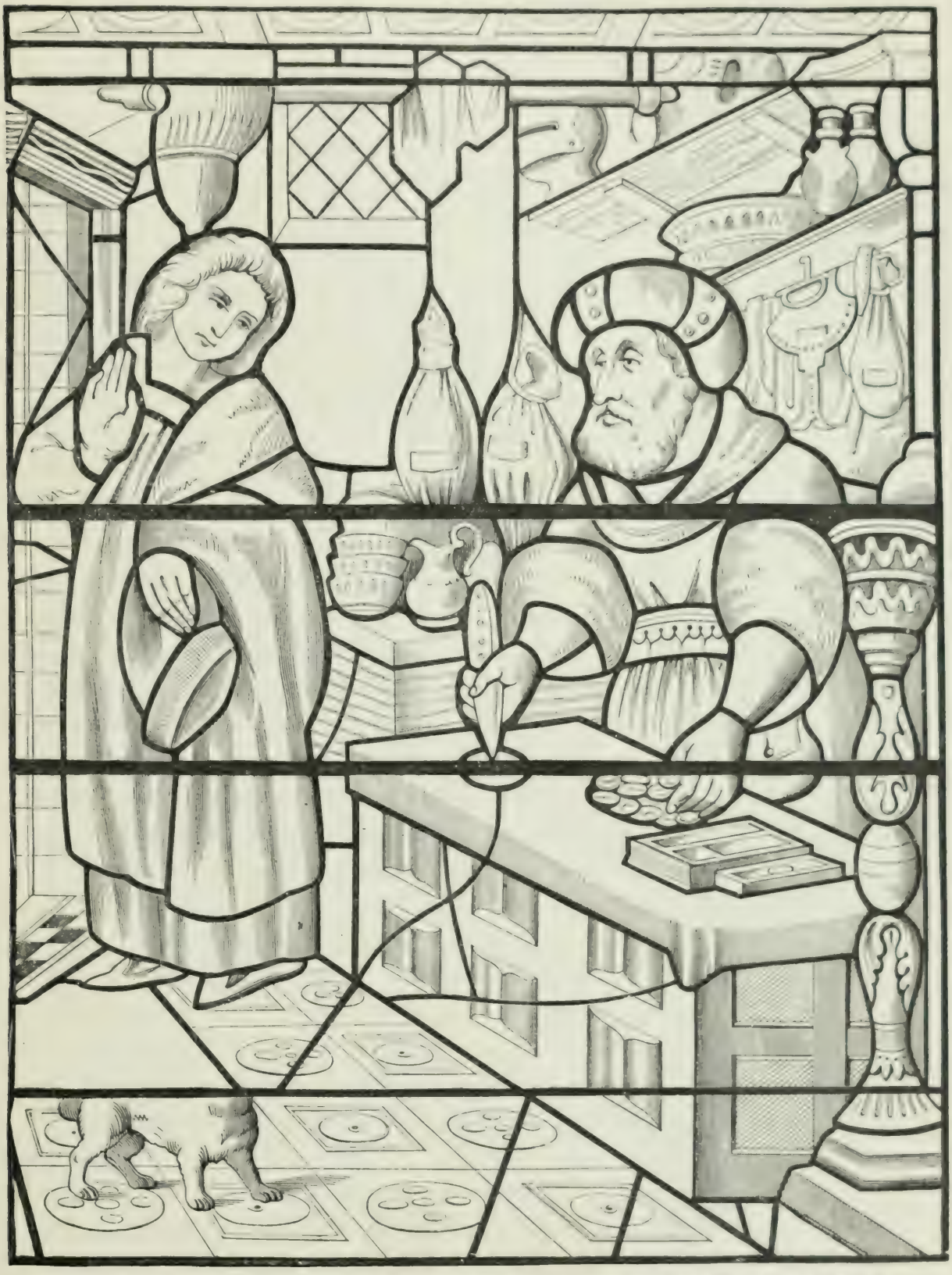


Fig. 184.—Legend of the Jew of the Rue des Billettes, Paris, piercing the Holy Wafer with his Knife. (From a Window of the Church of St. Alpin, at Châlons-sur-Marne. Fourteenth Century.)

influences to disappear, and would finally reduce the distinction between what is called the Poitevin style, the Norman style, &c., to a question

of a more or less skilful manufacture, or of a more or less advanced improvement.

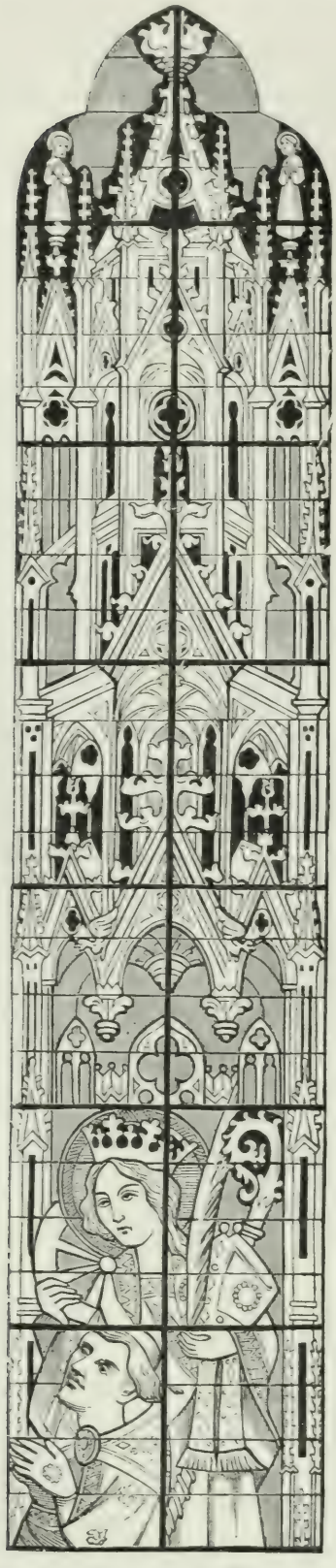


Fig 185.—Fragment of a Window presented to the Cathedral of Evreux by the Bishop Guillaume de Cantiers. Fourteenth Century.

In the fourteenth century the artist in glass became separated from the architect; although naturally subordinate to the designer of the edifice, in which the windows were to be only an accessory ornament, he wished to give effect to his own inspiration. The whole of the building was subjected by him to the effect of his more learned and correct drawing, and his purer and more striking colouring. It mattered little to him should some part of the church have too much light, or not light enough, if a flood of radiance deluged the apse or the choir, instead of being gradually diffused everywhere, as in earlier buildings. He desired his labour to recommend him, and his work to do him honour.

The court-poets, Guillaume de Machaut and Eustache Deschamps, celebrate several works in painted glass of their time, and even give some details in verse on the mode of fabricating them.

In 1347 a royal ordinance was proclaimed in favour of the workmen of Lyons. The custom existed at that time of adorning with painted windows royal and lordly habitations. The artists produced their own designs, adapting them to the halls for which they were intended. Some of these windows representing familiar legends are to be found even in churches (Fig. 184).

Among the most important works of the fourteenth century, we may mention the windows in the cathedrals of Mans, Beauvais, Évreux (Fig. 185), and the rose-windows of St. Thomas at Strasbourg. Next come the windows of the Church of St. Nazaire at Carcassonne and of the Cathedral of Narbonne. There are, besides, in the Church of St. John at Lyons, in Notre-Dame of Semur, in Aix in Provence, at Bourges, and at Metz, church-windows in every respect worthy of attention.

The fifteenth century continues the traditions of the preceding one. The

principal works dating from this epoch begin, according to the order of merit, with the window of the Cathedral of Mans, which represents Yolande of Aragon, and Louis II., King of Naples and Sicily, ancestors of the good

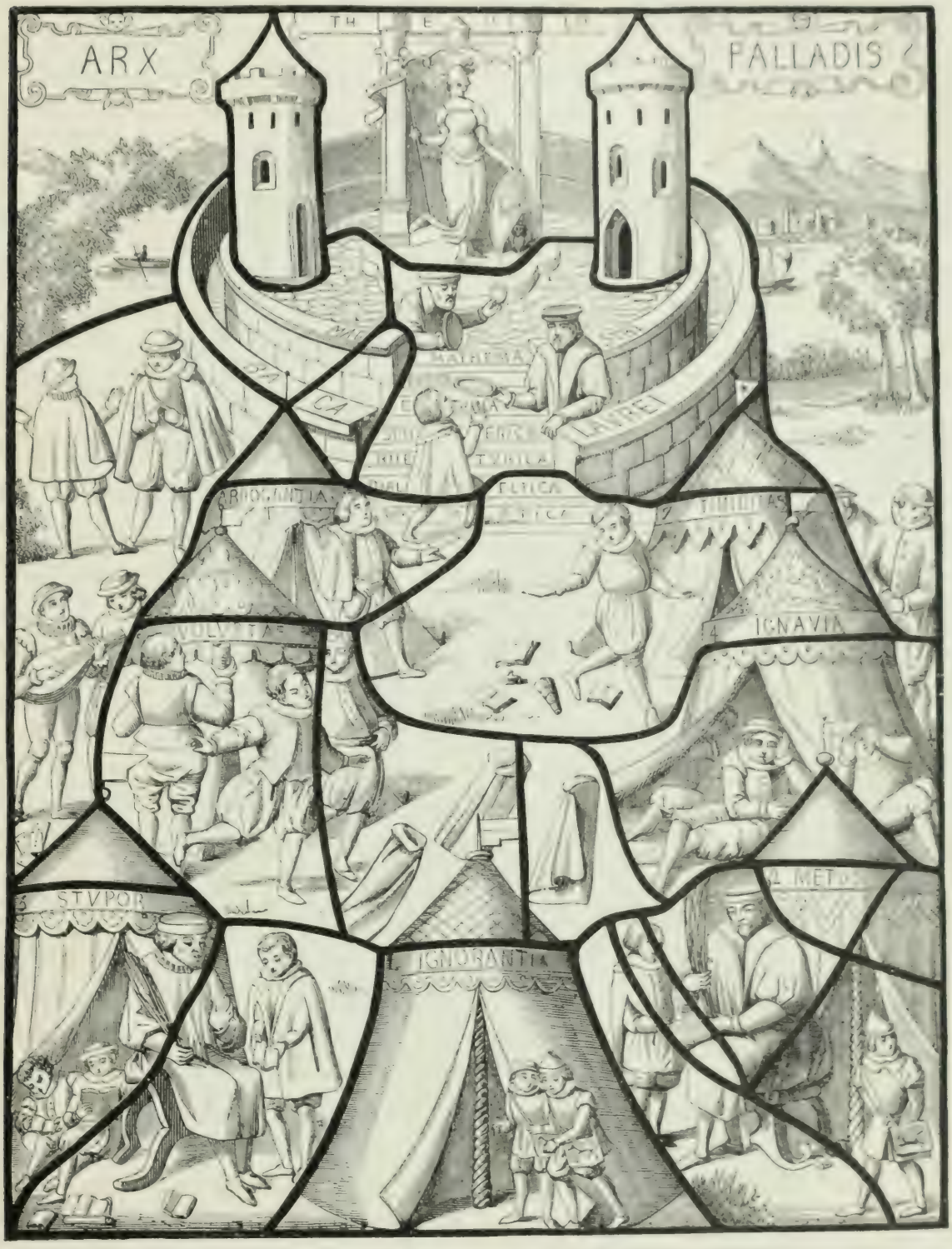


Fig. 186.—Allegorical Window, representing the "Citadel of Pallas."
(Lorraine work of the Sixteenth Century, preserved in the Library at Strasbourg.)

King René; after them we shall place the windows of the Sainte-Chapelle, Riom; St. Vincent, Rouen; the Cathedral of Tours, and that of Bourges, representing a memorial of Jacques Cœur, &c.

The sixteenth century, although bringing religious troubles with it, has handed down to us a variety of remarkable church-windows. We are, of course, unable to mention them all; but it seems expedient—adopting the rule of most archæologists—to divide them into three branches or schools, which are actually formed by the different styles of the artists of that epoch: the French school, the German school, and the Lorraine school (Fig. 186), which partakes of the characteristics of the two preceding.

At the head of the French school figures the celebrated Jean Cousin, who decorated the chapel of Vincennes; he also made for the Célestins monastery, Paris, a representation of Calvary; for St. Gervais, in 1587, the windows representing the "Martyrdom of St. Lawrence," the "Samaritan conversing with Christ," and the "Paralytic." In these excellent works, the method of arrangement, the vigorous drawing, and the powerful colour, seem to reflect the work of Raphael. Windows in "*grisaille*," made from the cartoons of Jean Cousin, also decorated the Castle of Anet.

Another artist, named Robert Pinaigrier, who, although inferior to Cousin, was much more fertile in production, assisted by his sons Jean, Nicholas, and Louis, and several of his pupils, executed a number of windows for the churches of Paris, most of which have disappeared: Saint-Jacques de la Boucherie, the Madeleine, Sainte-Croix en la Cité, Saint Barthélemy, &c. Magnificent specimens of his work still remain at Saint-Merry, Saint-Gervais, Saint-Etienne du Mont, and in the Cathedral of Chartres. Pinaigrier's works in the mansions of the nobility are perhaps equally numerous.

At this period several windows were made from the drawings of Raphael, Leonardo da Vinci, and Parmigiano; it may also be remarked that two patterns of the latter's work were used by Bernard Palissy (who was a "glazier" before he became an enameller), in the "*grisaille*" windows for the chapel of the Château at Ecouen. For this Château Bernard Palissy executed thirty pictures on glass, representing the history of Psyche, which were ranked among the most beautiful compositions of the epoch; it is not now known what has become of them. They were, it is said, executed under the direction of Leonard of Limoges, who, like all the masters of that school, (Fig. 187), applied to painting on glass the processes of enamelling, and *vice versâ*. In the collections of the Louvre and of several amateurs, objects are to be seen on which he employed the best glass-painters of his time; for he could not himself work on everything that came from his atelier.

The French art of glass-working became cosmopolitan. It was introduced into Spain, and also into the Low Countries under the protection of Charles V. and the Duke of Alba. It even appears to have crossed the Alps; for we know that in 1512 a glass-painter of the name of Claude adorned with

his works the large windows of the Vatican, and that Julius II. summoned Guillaume of Marseilles to the Eternal City. We must not omit to mention, among the few Flemish artists who escaped foreign influence, the name of Dirk of Haarlem (Fig. 188), the most celebrated master in this art at the close of the fifteenth century.

While French art was thus spreading over the Continent, foreign art



Fig. 187.—St. Paul, an Enamel of Limoges, by Etienne Mercier.

was being introduced into France. Albert Dürer employed his pencil in painting twenty windows in the church of the Old Temple, in Paris, and produced a collection of pictures characterised by vigorous drawing, and warm and intense colouring. The famous German did not work alone—other artists assisted him; and, notwithstanding the devastation which took place during the Revolution, in many a church and mansion traces of these

skilful masters may still be found. Their compositions, which are generally as well arranged as they are executed, are marked with a tinge of German simplicity very suitable to the pious nature of the subjects they represent.

In 1600, Nicholas Pinaigrier placed in the windows of the Castle of



Fig. 188.—Flemish Window (Fifteenth Century), half life-size. Painted in monochrome, relieved with yellow, by Dirk of Haarlem. (Collection of M. Benoni-Verhelst, Ghent.)

La Briffe seven pictures in "*grisaille*," copied from the designs of Francis Floris, a Flemish master, who was born in 1520. At this same period Van Haeck, Herreyn, John Dox, and Pelgrin Rösen, all belonging to the school of Antwerp, and other artists who had decorated the windows of most of the



JOSIAH I AND LEARNING AT THEIR DEVOTIONS





FRANCIS I. AND ELEONORA AT THEIR DEVOTIONS

Portion of a Stained Glass Window in the Church of St. Gudule at Brussels

churches in Belgium, especially St. Gudule in Brussels, influenced either directly or indirectly the glass-painters of the east and north of France. Another group of artists, the Provençals, imitators of the Italian style, or rather of Michel-Angelo, trod a similar path to that which Jean Cousin, Pinaigrier, and Palissy had followed with so much renown. The chiefs of this school were Claude and Guillaume of Marseilles, who, as we have just mentioned, carried their talent and their works into Italy, where they succeeded in educating some clever pupils.



Fig. 189.—Temptation of St. Mars, a Hermit of Auvergne, by the Devil disguised as a Woman. Fragment of a Window of the Sainte-Chapelle of Riom. Fifteenth Century.
(From "Histoire de la Peinture sur Verre," by M. F. de Lasteyrie.)

With regard to the school of the Messin or Lorraine, it is principally represented by a disciple of Michel-Angelo, Valentin Bousch, the Alsatian, who died in 1541 at Metz, where, since 1521, he had executed an immense number of works. The windows of the churches of St. Barbe, St. Nicolas du Port, Autrey, and Flavigny-sur-Moselle, are due to the same school, in which Israel Henriet was also brought up; he became the chief of a school, exclusively belonging to Lorraine, at the time when Charles III. had invited the arts to unite under the patronage of the ducal throne. Thierry Alix, in a

"Description inédite de la Lorraine," written in 1590, and mentioned by M. Bégin, speaks of "large plates of glass of all colours," made in his time in the mountains of Vosges, where "all the herbs and other things necessary to painting" were found. M. Bégin, after having quoted this curious statement, adds that the windows which at that time were produced in the workshops of the Vosges, and subsequently carried to all parts of Europe, constituted a very active branch of commerce.

"Nevertheless," says Champollion-Figeac, "art was declining. Christian art especially was disappearing, and had almost come to an end, when Protestantism stepped in and gave it the last blow; this is proved by the window in the cathedral church of Berne, in which the artist, Frederic Walter, dared to launch his satire against a central doctrine, and to ridicule transubstantiation by representing a pope shovelling four evangelists into a mill, from which come forth a number of wafers; these a bishop is receiving into a cup in order to distribute them to the wondering people. Any edification of the masses by the powerful effect of transparent images placed, so to speak, between the earth and heaven, soon ceased to be possible, and glass-painting, henceforth alienated from the special aim of its origin, was destined also to disappear."

FRESCO-PAINTING.

The Nature of Fresco.—Paintings at Pompeii.—Greek and Roman Schools.—Mural Paintings destroyed by the Barbarians and Iconoclasts.—Revival of Fresco in the Ninth Century.—Fresco-Painters since Guido of Siena.—Their Principal Works.—Successors of Raphael and Michel-Angelo.—*Sgraffito.*—Mural Paintings in France from the Twelfth Century.—Gothic Frescoes of Spain.—Mural Paintings in the Low Countries, Germany, and Switzerland.



OO frequently in conversational language, and even in the writings of grave authors," says M. Ernest Breton, "the word *fresco* is made synonymous with mural painting in general. This confusion of terms has sometimes caused the most fatal errors. The etymology of the word is the best definition of the subject. The Italians give the name of paintings *in fresco* or *a fresco*, that is to say, *à frais*, or *sur le frais*, to those works executed upon fresh and still damp stucco, into which the colour penetrates to a certain depth. The ancient French authors, preserving the difference existing between the Italian *fresco* and the French *frais*, wrote the word *fraisque*. At the present day Italian orthography has prevailed."

Whatever may be the common acceptation of the word, we must here, in order to keep within the limits of our subject, only take into consideration real frescoes, or in other words, works of art executed upon a bare fresh layer of stucco, properly prepared for the purpose. We will mention as a striking example of this the famous "Last Supper" of Leonardo da Vinci, which is often called a fresco, but is nothing in reality but a painting in distemper* on a dry partition.

Fresco has often been thought the most ancient style of painting. Vasari, who wrote in the middle of the sixteenth century, says in apt terms that

* This is a mistake. It is painted in oil, in one of those complicated processes over which Leonardo spent, if he did not waste, so much of his time.—A.

"the ancients generally practised painting *in fresco*, and the first painters of the modern schools have only followed the antique methods;" and, in our own day, Millin, in his "Dictionnaire des Beaux-Arts," asserts that the great paintings in the "Pœcile" of Athens and the "Lesche" of Delphi, by Panænus and Polygnotus, spoken of by Pausanias, were executed by this process; the same author also ranks among frescoes the numerous paintings left by the Egyptians in their temples and catacombs. "It was," he remarks, "what the Romans called *in udo pariete pingere* (to paint on a damp wall); they say *in cretula pingere* (to paint on chalk) to designate water-colour painting on a dry ground."

Some persons have considered the paintings found at Herculaneum and Pompeii to be frescoes; nevertheless Winckelmann, who is an authority in these matters, said, a hundred years ago, in speaking of those works, "It is to be remarked that the greater part of these pictures were not painted on damp lime, but upon a dry ground, which is rendered very evident by several of the figures having scaled off in such a way as to show distinctly the ground upon which they rest."

The whole mistake has arisen from taking the expression "*in udo pariete*," found in Pliny, in too literal a sense; the error, which might at all events have been dissipated by an attentive examination of the examples themselves, would not have lasted long if the passage from Pliny had been compared with the statement of Vitruvius, in which we are told that uniform tints of black, blue, yellow, or red were laid upon still damp walls in order to form the grounds of paintings. The employment of this process may be easily recognised in the paintings of Pompeii, where this under-colour has sometimes penetrated nearly an inch into the stucco of the wall. On this ground, when perfectly dry, ornamental designs were painted either in distemper or encaustic.

The process of painting in *fresco* was then unknown to the ancients; it was a later invention, to which it would be difficult to assign any precise date; for however far we go back, we do not find any authority for the epoch at which the new method was for the first time followed. We must, therefore, be content to notice the age of some particular example without being able to determine the exact date at which the process as a whole commenced.

Greek painting, which attained its greatest height in the reign of Alexander, fell, says M. Breton, "with the national power. In losing its liberty, the country of the Fine Arts lost, too, its perception of the beautiful." At Rome, painting never reached the same degree of perfection as it did in Greece; for a long time it was only practised by men of the lowest rank and by slaves. A few patricians, such as Amulius, Fabius *Pictor* (painter), and Cornelius Pinus, were, at the best, able to bring about some slight revival.

After the twelve Cæsars, painting followed the movement of decadence which carried all the arts with it; like them, it received its death-blow in the fourth century, on the day when Constantine, quitting Rome in order to establish the seat of empire at Byzantium, took with him into his new capital not only the best artists, but also a prodigious number of their productions, and of those of their predecessors. Several other causes may be mentioned as having led to the decline of art, or to the destruction of examples which would now bear witness to its power in remote ages. In the first place, there was the birth of Christian Art, which rose on the ruins of Paganism; then, the invasion of barbarians which took place in the fifth century; lastly, in the eighth and ninth centuries, the fury of the Iconoclasts, or Image-breakers, a sect at the head of which figured several emperors of the East, from Leo the Isaurian, who reigned in 717, down to Michael the Stammerer and Theophilus, who respectively ascended the imperial throne in 820 and 829.

Even among the ignorant masses, to whom we owe the loss of so many *chefs-d'œuvre*, a few honourable exceptions were to be found, who not only opposed the devastations, but manifested a strong conservative instinct. Cassiodorus tells us that Theodoric, King of the Goths, re-established the office of *centurio nitentium rerum* (guardian of beautiful objects), instituted by the Emperor Constantius; and we know that the Lombard kings who succeeded this prince and reigned in Italy for 218 years, although less zealous in the culture of the arts, did not fail to honour and protect them. Paul the Deacon tells us that, in the sixth century, queen Theudelinda, wife of Autharis and afterwards of Agilulphus, caused the valorous deeds of the first Lombard kings to be painted on the *basilica* that she had consecrated Monza under the name of St. John. Other paintings of the same epoch may still be seen at Pavia. The Church of St. Nazaire at Verona possesses in its crypt paintings spoken of by Maffei, which have been engraved by Ciampini and Frisi: these must date back to the sixth and seventh centuries. Lastly, there have been recently found in the subterranean chapel of the *basilica* of San Clemente, in Rome, some admirable mural paintings, which archæologists refer to the same epoch.

The Eastern artists, driven away by the persecutions of the Iconoclasts, sought an asylum in Italy, where the Latin Church, obedient to the prescriptions of the Council of Nice, seemed determined to multiply sacred images as much as possible. The arrival of the Grecian artists in the West was also singularly promoted by the commercial relations which from that time were established between maritime or mercantile towns of Italy—Pisa, Genoa, and Venice—and distant ports on the Mediterranean. Thus was brought about the movement which, although taking place on Italian soil, drew from an entirely Eastern source the inspiration of the revival of the Fine Arts; thus

was continued the so-called Byzantine school, destined to be the mother of all modern art.

In 817 some Greek artists, by order of Pope Pascal I., executed under the portico of the Church of St. Cecilia in Rome a series of frescoes, the subjects of which were taken from the life of the saint. To the same school we are indebted for the sitting figures of Christ and His mother (Fig. 190), in the old Church of Santa-Maria Transteveria, in Rome; the large Madonna painted on the walls of Santa-Maria della Scala, Milan, which, at the time when this church was destroyed and replaced by the theatre of La Scala, was



Fig. 190.—Christ and His Mother. Fresco-Painting of the Ninth Century, in the Apse of Santa-Maria Transteveria, Rome.

taken away and carried to the Church of Santa-Fidelia, where it still remains; a series of portraits of the Popes after St. Leo, a collection of which a large portion perished in the fire of St. Paul-extra-Muros, Rome (Fig. 191); and lastly, the paintings in the vaults of the Cathedral of Aquila.

"The works of these earliest painters," observes M. Breton, "seem to mark the transition from painting to sculpture: they are long figures as stiff as columns, single or arranged symmetrically, forming neither groups nor compositions, without perspective or effects of light and shade, and having nothing to express their meaning than a sort of legend proceeding

out of the mouths of the characters. These frescoes, which are so weak when looked at in an artistic point of view, are remarkable for their technical execution, being extremely solid in their workmanship. It is astonishing to see the wonderful preservation of some pictures of saints that adorn the pilasters of St. Nicholas in Treviso and the walls of the church in Fiesole whereon are preserved the frescoes of Fra Angelico."

Among the paintings remaining to our time, the first in which the authors departed from the uniform style of the Byzantine masters are those which adorn the interior of the ancient temple of Bacchus, now the Church



Fig. 191.—Portrait of the Pope Sylvester I. Fresco-Painting in Mosaic, on a gold ground, in the Basilica of St. Paul-extra-Muros, Rome.

of St. Urban in the Campagna of Rome: there is nothing Grecian either in the figures or draperies, and it is impossible not to recognise in them an Italian pencil; the date, however, is 1011. Pesaro, Aquila, Orvieto, and Fiesole, possess examples of the same epoch.

At last, in the thirteenth century, notwithstanding its fierce intestine struggles, Italy, and especially Tuscany, witnessed the dawn of the sun of the Fine Arts, which, after a long period of darkness, was to shine with so much brilliancy over the whole world. Pisa and Siena, earliest in the revival, gave birth respectively to Giunta and Guido (Palmerucci), each of whom in his time acquired great renown; but the only works of these

artists which remain now, in the Cathedral of Assisi, seem but to indicate a desire of progress without manifesting any real advancement in art.

To Guido of Siena succeeds, but not immediately, the friend of Petrarch,



Fig. 192.—The Apostles in the Garden of Gethsemane. Fresco by Berna, at San-Gemignano. (Fourteenth Century.)

Simone Memmi, whose frescoes in the Campo Santo of Pisa testify to his powerful genius, and denote the first remarkable stage of art.

In the collegiate church of San-Gemignano may be still seen a fresco by Berna (Fig. 192), an eminent master in the school of Siena, who died in 1370.





Fresco by Berna, at San-Gemignano.



THE DREAM OF LIFE

[After a Copy made for the Liberated Spanish Exiles]

From a Recent Painting by Douglas in the Chapel of the Escurial near Madrid

Passing, but not without mention, Margaritone and Bonaventura Berlinghieri, who were only the timid harbingers of a great individuality,



Fig. 193.—Group of Saints, taken from the large Fresco of "The Passion" in the Convent of St. Mark. Painted by Fra Angelico of Fiesole.

the Florentine school places in the first rank of its celebrities Cimabue (1240—1300), justly regarded by the artistic world as the true restorer of painting. Cimabue pointed out the path; Giotto, his pupil, trod it. He

took nature for his guide, and had been surnamed "nature's pupil." Real imitation was the object of his endeavour, and as he found this system marvellously applied in the beautiful antique marbles which had already inspired, in the preceding century, the sculptors Giovanni and Niccolo of Pisa, he made an earnest study of these ancient *chefs-d'œuvre.* For two centuries more there was a slow but sure progression, and then the full flood, the great period, came to drive fresco-painting to the highest point it has ever reached. This is not the place even for an epitome of Italian art in the fifteenth, sixteenth, and seventeenth centuries, and we must refer our readers to the many great works in which it is treated for a full account of the final bloom of the beautiful art of mural painting, and for its fall with the schools of Naples and Bologna.



Fig. 194.—First Picture of the Loggia of Raphael—"God creating the Heaven and the Earth."

But we must not quit the subject without mentioning the decorative and less dignified art of *sgraffito*—literally, a scratch.

This style of decoration was generally used for the exterior of buildings, and was produced by covering the wall first with black stucco, then with a second layer of white, and afterwards by removing with an iron instrument the second layer, so as to lay bare, in places, the black ground. The most important work executed in this style is the ornamentation of the monastic house of the knights of St. Stephen, at Pisa; it is by Vasari, to whom the invention of *sgraffito*, which was used long before his time, has sometimes been wrongfully ascribed.

Hitherto we have chiefly confined our remarks to Italy and Italian

artists, and yet we have nearly summed up the history of fresco. If we would look to France for any remarkable works of this kind, we must refer to the epochs in which Italy sent Simone Memmi to decorate the palace



Fig. 195.—"Fraternity of the Cross-bowmen."
(Fresco-Painting of the Fifteenth Century, in the ancient Chapel of St. John and St. Paul, Ghent.)

of the popes at Avignon, and Rosso and Primaticcio to adorn that of the kings at Fontainebleau. Prior to this, we meet at most with a few primitive subjects, painted here and there, in distemper, by unknown artists, on the

walls of churches or monasteries. Among these conventional examples it is, however, only just to distinguish some pictures of powerful effect, at least in idea; we would speak of the "Dance of Death," or "Dance of the Dead," like that which existed at Paris in the Cemetery of the Innocents, and another still to be seen in the Abbey of Chaise-Dieu, in Auvergne—legends rather than pictures, and philosophical compositions rather than manifestations of art. Spain, too, has no reason to be proud of her national productions; for, with the exception of the Gothic frescoes still existing in the Cathedral of Toledo, representing the combats between the Moors



Fig. 196.—"Death and the Jew."
An episode from the "Dance of Death." Painted in 1441, in the Cemetery of the Dominicans, Basle.
(Facsimile from the Engraving of M. Mérian.)

and the Toledans (pictures specially worthy of the attention of archæologists), the only frescoes of Spanish origin we can mention are the paintings of a few ceilings in the Escurial and in a chapter-room in the Cathedral of Toledo; all the other frescoes must be attributed to Italian artists.

Whenever the northern artists, usually so cold and methodical in their mode of operation, devoted themselves to mural painting, it seems to have been necessary that they should enliven their temperament in the sunny rays of a southern sky; for while in Holland and Belgium we notice but

few walls covered with decorative painting, we find a large number of Italian churches and palaces which contain frescoes bearing the signature of Flemish masters.

There was considerable excitement manifested a few years ago at the discovery of the mural paintings in the ancient Chapel of St. John and St. Paul, in Ghent (Fig. 195). These works are of the fifteenth century, and although satisfactory enough as regards design, they derive more importance from the subjects they represent than from any merit in their execution.

In speaking of Germany, we should not omit to mention the ancient "Dance of Death" (Fig. 196), at Basle, in the cemetery of the Dominicans, painted in the middle of the fifteenth century; also another "Dance of Death" much more famous, and the façades of several houses, painted at Basle by Holbein. We must also indicate the paintings with which (in 1466) Israel von Meckenen covered the walls of a chapel of St. Mary of the Capitol, at Cologne; and the frescoes of St. Etienne and St. Augustine, at Vienna. But it does not follow, from this limited enumeration of works, that Germany either created or followed any special school.



Fig. 197.—Fra Angelico, of Fiesole.

PAINTING.

The Rise of Christian Painting.—The Byzantine School.—First Revival in Italy.—Cimabue, Giotto, Fra Angelico.—Florentine School: Leonardo da Vinci, Michel-Angelo.—Roman School: Perugino, Raphael.—Venetian School: Titian, Tintoretto, Veronese.—Lombard School: Corregio, Parmigianino.—Spanish School.—German and Flemish Schools: Stephen of Cologne, The Van Eycks, Lucas van Leyden, Albert Durer, Lucas Cranach, Holbein.—Painting in France during the Middle Ages.—Italian Masters in France.—Jean Cousin.

AFTER its first weak manifestations in the dark shadows of the Catacomb—the place of refuge to which the earliest believers had to resort to celebrate their holy mysteries—Christian painting made its first attempt to display itself in open day at the time when the new faith found in Constantine the protection of a crowned disciple. But this art felt an instinctive repugnance to draw its inspirations from works which had been created under the empire of decayed and contemned creeds. In the completely spiritual worship of the true God, it seemed but natural to seek for other types than those which had been consecrated by the fancies of materialistic mythologies.

The school of *idea*, which was substituted for the school of *form*, desired to owe nothing to its frivolous predecessor. It would have considered it a reproach to give even the semblance of permanence to reprobated traditions, and it set itself to work to create an art completely new in all its features. The rule it laid down, therefore, was to regard as non-existent the *chefs-d'œuvre* which recalled to mind the days of moral error; rejecting the inspiration to be derived from the magnificent relics of the past, it resolved to commence an era of its own, and to exist on its own ideas. Hence that principle of energetic simplicity which, although it may have hindered art from elevating itself to the perfection we call classical, had at least this advantage, that it sought by gradual development to imprint on Christian art a stamp of individuality from which it was to derive both its power and its glory.

Thus, by the enthusiasm of faith, was called into existence that really primitive School of Painting which has received the name of *Byzantine;* because at the very time when it obtained the liberty of displaying itself, Constantine, transferring the seat of empire to Byzantium, necessarily took with him the body of artists of whom he was the protector; because, too, as we have before observed, Byzantium henceforth became for many centuries the sole focus whence light radiated towards the West, which was now plunged in barbarism. We must, therefore, go back to the Byzantine school, if we wish to trace to their origin all the forms of European painting.

"Allegory," says M. Michiels, "was the first language of Christian painting; not only did it express typically the Evangelical teachings, but the Divine personages themselves were metamorphosed into symbols. Sometimes, for instance, Christ appeared in the form of a young shepherd, bearing on his shoulders and carrying back to the fold a wandering sheep; sometimes He was represented as the Orpheus of the new faith, charming and taming ferocious animals by the sound of His lute. . . . He also was made to assume the form of the lamb without spot, or of a phœnix spreading its wings, the conqueror of death and the spirits of darkness. Thus was the transition softened down; thus did they escape the raillery of Pagans who would have turned into ridicule the heroic sufferings and the glorious humiliations of the Son of man. But this timidity could not long continue. . . . The council held at Constantinople in 692 commanded that allegory should be repudiated, and that the objects of their veneration should be displayed to the faithful without the veil hitherto employed. Now was exhibited to view a spectacle new indeed to men: a Deity crowned with thorns, enduring the outrages of a vile populace, or stretched upon a cross and pierced with a lance, turning His sad glance to heaven and wrestling with His agony. The Greeks and Latins were but slow in adopting this mode of representation, and did so with regret. . . . But the perception of moral dignity was destined to eclipse the vain pomp of Pagan grandeur. The generous sufferings of sacrifice were to become the greatest of all glories."

"Christian painting, when once established as an art on the banks of the Bosphorus, assumed a certain immobility of character. Forms, attitudes, groups, and vestments—all were regulated by ecclesiastical prescription. There was, as it were, an inflexible text-book, to which artists were bound to submit. Delicacy of colouring and nobility of attitude were the only things to recall the beauty of ancient art. Even in our days the Greek and Russian painters follow a similar plan, drawing and arranging their figures in the same manner as their ancestors of the time of Honorius and the Palæologi."

Even in the West the case was nearly the same, so long as the practice of painting remained almost exclusively confined to artists coming from Constantinople. Thus, in some celebrated manuscripts of the eighth and ninth centuries we find compositions that give a very exact representation of the state of the art in these remote times, though the paintings themselves have been destroyed by the Iconoclasts. In fact, during ten centuries it seemed that the Western races resisted any expression of artistic individuality or invention. Throughout this long period we find Greek painters the supreme arbiters of taste and knowledge in the countries of Western Europe, forcing upon them their own barren style, and teaching them their contracted perceptions. Art among them seemed always to be but a mere instinct. Constant immigrations took place which were continually leading them to every point in Western Europe, but none of them ever brought anything novel in art beyond what their predecessors had already introduced. If they took root in a new country, the son repeated the works of his father. The pupil took no means to enlarge his thoughts; he adopted as his model and his ideal nothing but the work of his master, and the poor form of tradition was continued without enthusiasm and without progress (Fig. 198). Genius is altogether wanting, or if its sacred spark sprung forth from heaven, it was soon extinguished when it reached the earth for want of a soul which could receive it, and be kindled by its fire. The Greek masters doubtless affected some pride in the grandeur of their native name, but they were none the less living proofs that the sources from which flowed the inspiration of a Zeuxis, a Protogenes, or an Apelles, had since those far-distant days been long dried up. The East had for ever terminated its ancient character of artistic creation, and the most it seemed destined to achieve during the Middle Ages was to preserve the germ which the West was to bring again into active life.

Italy, and more particularly Tuscany, may lay claim to the honour of having witnessed, about the end of the thirteenth and the beginning of the fourteenth century, the dawn of the great revival of artistic light. The names of Giunta of Pisa, Guido of Siena, and Duccio, had, however, already commenced the glorious list of Italian artists, who were the first to endeavour to modify the immutable Greek manner. Their attempts, no doubt, seem but insignificant, looking at the immense progress subsequently accomplished; but, however slight it may appear to be, the first step made beyond the beaten path which has been trodden for centuries is often evidence of the most courageous daring.

The year 1240 witnessed the birth of Cimabue. As a young man, he became enamoured of art by watching the labours of the Greek painters who had been summoned to Florence to decorate the chapel of the Gondi. It was

purposed to make him a *savant* and a lawyer; but he succeeded in abandoning the pen in favour of the pencil, and, from the lessons of the timid Byzantines,

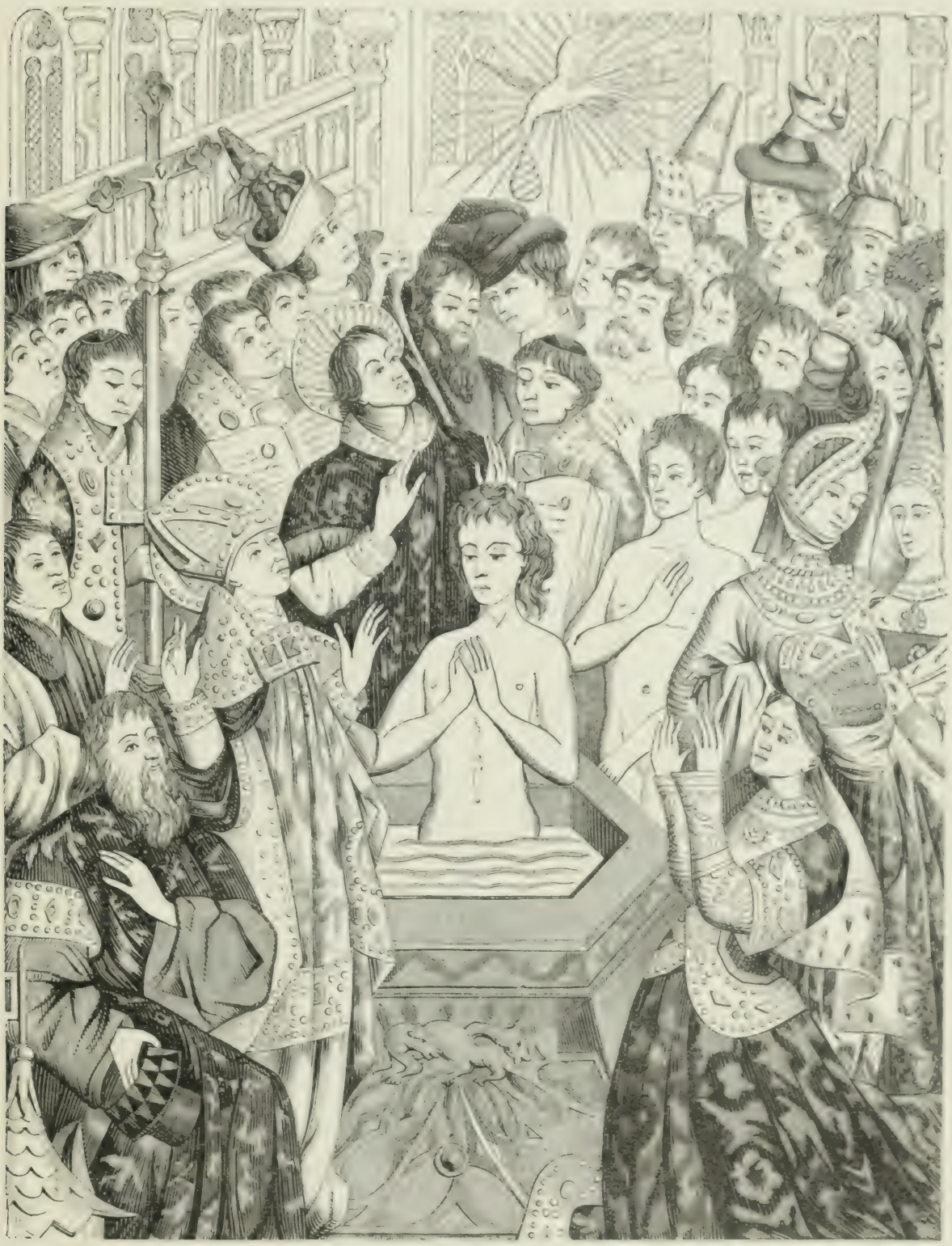


Fig. 198.—"Baptism of King Clovis."
(Fragment of a Painting on Canvas at Rheims. Fifteenth Century.)

he soon became a master whose every thought was henceforth devoted to the emancipation of an art that he found condemned to a kind of immobility. Thanks to him, the expression of faces, which up to that time had been

entirely conventional in character, was animated by a truer sentiment; lines which had been hard and stiff were broken up into well-ordered grace; colour, hitherto dull and gloomy, assumed soft brilliancy and harmonious relief. It is said that Cimabue's *chef-d'œuvre*, the "Madonna" which is still to be seen in the Church of Santa-Maria Novella, was carried in procession by the crowd to the place which it now occupies; the painter was received with shouts, and, it is added, the joy of the people at the sight of the picture was so great that the part of the city wherein Cimabue's studio was situated received, after this event, the name of *Borgo Allegro* (the Joyous Town). One day when Cimabue was in the country, he noticed a young shepherd-boy who was amusing himself by sketching on a rock the sheep he tended. The painter took charge of the boy; he became his favourite pupil, and was the celebrated Giotto, who happily persevered in the reform commenced by Cimabue. Giotto, the first among the artists of his time, ventured to paint portraits, and succeeded well in them. To him we owe our acquaintance with the real features of his friend Dante; and we still admire, at least as manifestations of an adventurous genius, the paintings he left at Padua, in the Church of Santa Clara at Naples, in the Cathedral of Assisi, and especially in the Campo Santo at Pisa, where he painted in fresco the history of Job.

Giotto died in 1336, but he left behind him to continue his work, Taddeo Gaddi, Giottino, Stefano, Andrea Orcagna, and Simone Memmi, who were each destined to open out some new path in art. In the Campo Santo at Pisa we may see how great was the power of the genius of these masters, especially of Andrea Orcagna (1329—1389), who has there represented, with an equal measure of beauty and of sombre and terrible energy, the "Dream of Life," facing the "Triumph of Death." Taddeo Gaddi remained a fervent disciple of his master, and continued his delicate accuracy of design and the living freshness of his colouring. Stefano succeeded him in the boldness of his compositions, in his studious knowledge of the nude, and of perspective effect, which had been hitherto neglected. Giottino inherited his serious inspirations. Memmi endeavoured to recall his mystical and graceful sentiment. Orcagna, who was at once painter, sculptor, architect, and poet, seemed to possess in turn all the qualities which his fellow-disciples had shared among them, and could represent with equal success the terrors of the infernal regions and the visions of heaven.

The progress of which these painters had constituted themselves the apostles was not carried out without exciting some opposition. In addition to the Greek masters, who naturally felt compelled to contend with the innovators, certain individuals were found among the Italian artists who energetically embraced the party of the past. We will only mention one,

Margaritone of Arezzo,* who wore out his long life in a useless devotion to a cause which was already lost; even his name we should not have particularised, if it had not been that the art owed him some gratitude for the service he rendered it, by substituting the use of canvas prepared for painting instead of panels of wood, which had hitherto been exclusively employed.

The Florentine school (for thus we call the group of artists who trod in the footsteps of Cimabue and Giotto) had for its representative, at the beginning of the fifteenth century, Giovanni of Fiesole, surnamed *Fra Angelico*, the personification of enthusiasm in artistic sublimity, whose works, too, resemble so many hymns of adoration. Born in the year 1387, and inheriting great wealth, he was endowed with a contemplative mind, and, ignorant of the talent which inspired him, he sought oblivion from the world in the garb of a Dominican, little suspecting that glory awaited him in the very depth of his humility. At first, as a kind of pious recreation, he covered with miniatures the pages of several manuscripts; next, his companions in the cloister requested him to paint a picture. He obeyed, feeling convinced that the inspiration which stirred within him was a manifestation of the Divine Spirit, and it was with the most artless simplicity that he referred to this celestial origin the *chef-d'œuvre* which proceeded from his hands. His reputation spread far and wide. At the invitation of the head of the Christian Church, he repaired to Rome in order to paint one of the chapels of the Vatican. And when the pontiff, full of enthusiasm at his talent, wished to confer upon him as a reward the dignity of archbishop, Angelico retired modestly to his cell in order to devote himself without interruption to that art which was to him a continual prayer, and a perpetual soaring up to that heavenly country on which he unceasingly meditated with all the unutterable feelings of the elect.

About the same era as the "seraphic monk," who died full of years in 1455, appeared Tomaso Guidi, for whom indifference to the rules of every-day life obtained the nickname of Masaccio (slovenly Tom); he astonished the world, however, by his works to such an extent that it was said concerning them, "those of his predecessors were *painted*, his were *living*." Masaccio was one of the first (and this fact shows how slowly art may progress even in bold hands) to place figures firmly on the soles of their feet, and in full front, instead of making them stand upon tiptoe, as his predecessors had done, from a want of skill in foreshortening. Masaccio died in 1443.

Philippo Lippi, who devoted himself more specially to the study of nature, both in the human physiognomy and also in the accessory details of

* Margaritone, however, was twenty-four years younger than Cimabue and fifty years younger than Giotto, so that his art had a right to be primitive. His most important work is in the English National Gallery.—A.

his works, marks as it were the stage in which art approached its full vigour. We are now at the end of the fifteenth century, and the masters of the *great masters* are in existence. It was Andrea Verrochio who, at the sight of an angel which Leonardo da Vinci, his pupil, had painted in one of his works, for ever abandoned his pencil. It was Domenico Ghirlandajo who, jealous of the superior qualities which he recognised in his pupil, the youthful Buonarotti, not only endeavoured, but succeeded in diverting his talents, at least for a time, to sculpture. It was Fra Bartolommeo (1469—1517) who was affected with such profound grief at the death of his friend Savonarola, that he embraced a monastic life. Baccio della Porta (such was the name Bartolommeo went by) was a very great painter (Fig. 199); the vigour and harmony ofcolouring which he showed, especially in his last productions, has sometimes caused them to be attributed to Raphael, with whom he was for some time united in friendship. But we must not confine ourselves to characterising the works of one single group of artists; for, although the revival took its rise on the banks of the Arno, it spread far and wide beyond those limits. Added to this, Giotto, when visiting Verona, Padua, and Rome, left in each place the still resplendent traces of his presence. When Fra Angelico went to adorn the Vatican, his genius spread around it a fruitful irradiation which everywhere dimmed the ancient renown of the Byzantine painters.

At Rome we find flourishing in succession Pietro Cavallini, whom Giotto had instructed during his sojourn in the Eternal City; Gentile da Fabriano, who drew his inspiration from Fra Angelico; and Piero della Francesca, who has been regarded as the originator of perspective. We next meet with Pietro Vannucci, called Perugino, who was born in 1446; it was owing to nothing but the force of his genius and his character that he became one of the most celebrated masters of his time. At the close of his career, Perugino had the honour of initiating into the practice of his art Raphael Sanzio of Urbino, who was in his own day, as he still is, the prince of painting.

At Venice a body of pioneers, still more numerous and compact, prepared the way for the new era, destined to be made illustrious by Titian, Tintoretto, and Paul Veronese. We will mention also Gentile and Giovanni Bellini; the former was incessantly absorbed in investigating the theories of an art which he nevertheless exercised with all the *abandon* of an inspired genius; the latter constantly devoted himself to the combination of power and grace; and, at the age of seventy-five years, seemed to regain a second youth in following with happy boldness the example of his pupil Giorgione. This painter, who was born in 1477, and died in 1511, introduced all kinds of innovations in respect to design and colour, and was the master of Giovanni da Udine, Sebastiano del Piombo, Jacopo Palma, and Pordenone, fellow-



Fig. 199.—"The Patriarch Job." A Painting on Panel, by Fra Bartolommeo. Fifteenth Century.
(In the Gallery at Florence.)

pupils and sometimes rivals of the three great artists whose works were to mark the apogee of the Venetian school.

At Parma a local school was represented by Antonio Allegri, called Correggio, born in 1494; and by Francesco Mazzuoli, called Parmigiano, or Parmigianino, born in 1503.

In other places, too, talents of a vigorous or of a graceful character were developed, but we can only cast a comprehensive glance on this memorable



Fig. 200.—Portrait of Leonardo da Vinci, from a Venetian Engraving of the Sixteenth Century.

artistic epoch, and are unable to offer a detailed review of the artists and their works.

Four principal schools compete with one another—the Florentine school, the characteristics of which are correct and noble design, good colour and grand conception; the Roman school, which seeks its ideal in sober sweep of line, in dignity of composition, in propriety of expression, and in beauty of form; the Venetian school, which occasionally neglected correctness of drawing, and devoted itself more to the brilliancy and magical effect of colour;

lastly, the school of Parma, which is distinguished especially by its softness of touch and by its knowledge of light and shade. Such attempts to estimate the different qualities of these various groups must not, however, be looked upon as in any way absolute.

As chiefs of the first school we have two men, each of whom presents to us one of the richest and widest organisations human nature has ever produced; these were Leonardo da Vinci and Michel-Angelo, each of whom



Fig. 201.—The Holy Family. School of Leonardo da Vinci, from the Picture in the Museum at St. Petersburg.

was sculptor as well as painter, architect, musician and poet. We will first speak of Leonardo da Vinci, whose style presents two very distinct epochs; the first tending to vigour in the shadows, to a mistiness in reflected lights, to a strong individuality of effect; a combination of qualities which, as M. Michiels says, makes Leonardo the "most northerly of the Italian painters" (Fig. 201). His second style, "clear, serene, and precise," transports us into a "completely southern sphere." But some secret influence drew the artist

so forcibly towards his earlier manner, that he returned to it at an advanced age in painting the famous portrait of Mona Lisa, which adorns the gallery of the Louvre. We must not forget the fact that we have to attribute to Pope Leo X. the great revival of the arts, and especially of painting, in Italy at the commencement of the sixteenth century.

"In Michel-Angelo," still to quote the words of M. Michiels, "science, power, grandeur, and all the more severe qualities are combined. No vulgar artifice and no affectation. The painter was imbued with a majestic ideal from which nothing was able to divert him. He felt as if he had within him a whole population of heroes, whom, by the aid of painting and sculpture, he endeavoured to withdraw from their mental concealment, and embody in visible forms. His personages scarcely seem to belong to our race; they appear to be creatures worthy of some more spacious world, to the proportions of which their physical vigour and their moral energy would well respond. The very women do not possess the grace of their sex; we might fancy them valiant Amazons well capable of mastering a horse or of crushing an enemy. This great man's object was neither to charm nor to please; his delight rather was to astonish and to strike with admiration or terror; but it is this very excess of power which enabled him to win the approbation of all."

Next we have Raphael, *il divino Sanzio,* as he was called by his numerous admirers, whose genius was constantly attaining to grandeur by means of simplicity, and to power by means of reserve. Michel-Angelo always seems as if he were only able to represent a limited portion of his gigantic conceptions on the wall he covered with his designs; but it was sufficient for Raphael to place some tranquil figure on a narrow square of canvas, and we have before us the bright image of a most perfect and delicious inspiration. He created for himself a heaven which he peopled with the purest and most venerated types of the human race; and a light, as from on high, beams with regal splendour on these graceful visions. In Raphael, even more than in Leonardo da Vinci, it seemed as if two artists of equal sublimity succeeded one another. At first we have the charming dreamer who, in the fresh enthusiasm of his early youth, creates Madonnas, artless daughters of the earth, in whose look and countenance a sacred light shines in all its ineffable purity; next he is the master full of the deepest science, for whom the real beauties of creation have no concealment; who, in representing nature, succeeded in transforming her in the magnificent ideal of which his own soul appears to have received the impression from association with the divine regions.

"The principal characteristic with Raphael," still following M. Michiels, "is the universality of his fame. It becomes almost painful to hear the vulgar crowd constantly repeating a magic name, the true signification of

which they do not understand." As the spoiled child of fortune, he is almost without detractors; it is impossible to reckon the number of his admirers. "One circumstance in his life affords us an emblem of his destiny. Having sent to Palermo the famous canvas of the 'Spasimo,'* a tempest overwhelmed the ship which carried it; but the waves seemed to respect the *chef-d'œuvre*. After having drifted more than fifty leagues through the sea, the box which enclosed the precious production floated gently on shore at the port of Genoa. The picture was in no way injured. The Sicilian monks, for whom it was intended, did not fail to claim it; and since that time, thanks to the mercy of the waves, it attracts to the foot of Etna numerous pilgrims to the shrine of genius."

At Venice, we first have Titian, the painter of Charles V. and Francis I. "The genius of Titian," says Alexander Lenoir, "is always great and noble. No painter has ever produced flesh-colours so beautiful and life-like. In Titian there is no apparent tone; the colouring of his flesh is so well blended, that it seems as difficult to imitate as the model itself. Add to his pictures their truth and expression of action, and the elegance and richness of the drapery, and we shall have some idea of the great works which he left behind him."

Next Jacopo Robusti presents himself, who, from the profession of his father was surnamed Tintoretto (the little Dyer). He was at first a pupil of Titian, who, it is said, from motives of jealousy, dismissed him from his studio; but the fervour of uninterrupted labour was all that Tintoretto required in order to mature the most productive talent. "The drawing of Michel-Angelo, and the colouring of Titian"—such was the ambitious motto he wrote over the door of his humble *atelier*, and we are almost justified in stating that he was enabled, by force of study and labour, to fulfil his aspirations, if we look only at some of his pieces executed before a certain fever of exuberant production had seized upon and necessarily weakened his vigorous talents. To form some estimate of the extent to which Tintoretto was impelled by this impulse of creation, we may recollect that even Paul Veronese reproached him with being unable to restrain himself—Veronese, the most indefatigable of producers!

With regard to the latter, his works are characterised not only by the number of figures in them, but also by the striking brilliancy of the *mise en scène*. Although he multiplies his actors, they are grouped in perfect order; although he paints a multitude, he knows how to avoid a crowd. Notice how a feeling of life profusely pervades the whole of his vast pictures of important

* The altar-piece, representing "Christ bearing his Cross," known by the name of *Lo Spasimo di Sicilia*, from its having been painted for the convent of Santa Maria della Spasimo at Palermo, in Sicily. It has been at Madrid ever since the days of Philip IV.—A.

events; an idea of space is everywhere given; everywhere light plays a powerful part, and imagination has full scope. He is the painter *par excellence* of feasts and ceremonies: at once pompous and natural, his copiousness is only equalled by his dazzling facility; and we are compelled to forgive the errors with which he mingles on the same canvas the religious ideas of sacred subjects and the profane splendour of modern times.

What shall we say about Correggio? There is no methodical scale by which to measure grace; and there is no formula laid down for such softness as his. But if, at the Louvre, we examine his "Antiope asleep," we shall not soon forget his fascination.

From Correggio to Parmigianino the distance is of the kind that admiration can easily fill up. It was said of the latter that he had more the appearance of an angel than of a man; and the Romans of his own day used to add that the spirit of Raphael had passed into his body. In more than one instance his genius was kindled by the sun of Correggio, and ripened in the studios of Michel-Angelo and Raphael; but in addition to this, his flexible and varied talent enabled him to find a place by himself between these two masters. "St. Francis receiving the Stigmata," and "The marriage of St. Catherine," which he painted before he had attained his eighteenth year, are still regarded as equal to the *chefs-d'œuvre* signed by Allegri. It is well known that a "St. Margaret," executed by Parmigianino fifteen years later for a church at Bologna, was placed by Guido in the same rank as the "St. Cecilia" of Raphael.

By the side of, or after, these famous men, in whom the glory of Italian painting seems to have brilliantly culminated, how many noble names still remain to be cited; how many remarkable men are there still to mention, even among those who, in following the glorious path opened out for them by the great masters, began to show glimpses of the earliest symptoms of decay, exhaustion, and lassitude! It does not form a part of our plan to dwell upon the various phases of this decadence; but before we glance at the last sparks of light which were shed, we must not forget the fact that the Italian pleiades were not exclusively privileged to illumine the artistic horizon.

It is certainly the case that all over Europe the Byzantine tradition had been the sole possessor of the throne of art since the earliest centuries of the Middle Ages. In Germany as in Italy, in France as in the countries bounding it on the north, we find nothing but the same school displaying the dead level of its inflexibility. At various epochs, however, certain feeble attempts at independence were here and there manifested; but these aspirations were at first generally isolated, and therefore transient in their character. Finally, however, as if the hour of revival had been simultaneously agreed upon at all points of the intellectual world, these desires for emanci-

pation manifested themselves in a corresponding effort to reject the former too absolute form, and to substitute the element of life for the principle of conventionality.

In Spain a strange combat was waging on the soil itself, for the possession of which two hostile races, two irreconcilable faiths, were in fierce contention. The Mahometan built the Alhambra, the halls of which were destined to be subsequently adorned by a Christian pencil. In the paintings that enliven the arches of this marvellous edifice an art is manifested which is both simple and grand in its character; but in this one undertaking it appears to have exhausted the share of vitality time had awarded to it; for immediately afterwards it seems to have died away. If, however, any fresh masters of the art of painting appeared on the Iberian soil, they had sought in Italy the flame of inspiration, or some mighty art pilgrim visited their country. We must come down to a later epoch, from the consideration of which we are now precluded, in order to meet with an Herrera, a Velasquez, or a Murillo, the glory of whom, although comparatively late, may perhaps hold its own by the side of the great Italian schools, but cannot pretend to eclipse them. Among the predecessors of these real and distinct individualities, we will, however, mention the following:—Alonzo Berruguete, born in 1480, at once painter, architect, and sculptor; he was a pupil of Michel-Angelo, in whose works he often took a share; Pedro Campagna, born in 1503, who studied under the same master—his *chef-d'œuvre* is still admired in the Cathedral of Seville; Luis de Vargas, born in 1502, who was able in many points to appropriate the secrets of Sanzio, from whom he appeared to have received lessons; Morales, whose paintings are still admired for the harmony of their lines and the delicacy of their touch; Vicente Juanes, whose purity of design and sober vigour of colouring obtained for him the exaggerated title of the "Raphael of Valencia;" lastly, Fernandez Navarette, born in 1526, who, perhaps less hyperbolically, was surnamed the "Spanish Titian;" and Sanchez Coello, born about 1500, who, excelling in portraits, has handed down the likenesses of some celebrated personages of his time.

In Germany and the Low Countries we find similar cases of the feeling of regeneration actuating the minds of artists at a much earlier period. The first name which presents itself to us beyond the Rhine is that mentioned in the Chronicle of Limburg, of the date of 1380. "There was then at Cologne," says the chronicler, "a painter named Wilhelm. According to the masters, he was the best in all the countries of Germany; he has painted men of every description as if they were alive." We have nothing left of the works of this artist except some panels without signature, which, in consideration of the date they bear, are attributed to him; an examination shows that, considering the epoch at which he lived, Wilhelm might justly be looked

upon as a creative genius. He was succeeded by his most talented pupil, Stephen Lochner, commonly known as Meister Stephan. A triptych of his may be seen at the Cathedral of Cologne, representing "The Adoration of the Magi," "St. Gereon," "St. Ursula," and "The Annunciation." This work, which exhibits charming finish as well as harmonious simplicity, is sufficient evidence that its author was possessed of much natural ability as well as a certain extent of knowledge; and if we make it our study to seek out the relics of the artistic movement of the period, we can in no way feel surprise at seeing that the influence of this early master made itself felt in a very extended radius.

But at this epoch, that is, at the commencement of the fifteenth century, in a city of Flanders, a new luminary made its appearance, which was destined to eclipse the brilliancy of the somewhat weak German constellation. Two brothers, Hubert and John van Eyck, together with their sister Margaret, established themselves in the "triumphant city of Bruges," as it is called by an historian; and very soon all the Flemish and Rhenish regions resounded with the name of Van Eyck, their works being the only representations which were admired and followed; and even in those early days it was a title of glory to form a part of their brilliant school.

John, or Jan, the younger of the two brothers, was the more famous (Fig. 202). He is reputed to have been the inventor of oil-painting; but all he did was to improve the methods employed. Nevertheless, tradition says that an Italian master, Antonello da Messina, made a journey to Flanders, with the object of finding out the secret of "John of Bruges" (by which name Van Eyck was known in Italy), and that he subsequently circulated it throughout the Italian schools. Be this as it may, Jan van Eyck, apart from any similarity in manner (for it was by the force of his colouring, as much as by his new theories of composition, that he succeeded in revolutionising the old school of painting), may be considered as the Giotto of the North; but we must add that the effects of his attempts were much more rapidly decisive. At one leap, so to speak, the somewhat cold painting of the Gothic school decked itself with a splendour which left but little for the future Venetian school to achieve beyond it; with one flight of genius, stiff and methodical conceptions became imbued with suppleness and vital action. Finally, we have the first notable sign of the true feeling of an art combining science and grace—a knowledge of anatomy is shown in the life-like flesh and under the brilliant draperies. There is, however, a considerable distance, which cannot fail to be remarked, separating the two reformers of art whose names we have just brought together. One, Giotto, desired to grasp the real in order to make it conduce to the triumph of the ideal; while Van Eyck only accepted the ideal because he

had as yet been unable to apprehend the deepest secrets of the real. All the other masters are but as the fruit yielded by the school of the great Florentine, and by those which the descendants of the Flemish masters were destined to produce. At Ghent, the famous altar-piece of Van Eyck, the "Adoration of the Paschal Lamb," is still an object of pilgrimage, though so many of its parts have been removed.*

John van Eyck resided for some time at the court of Portugal, whither he had been sent by Philip the Good, Duke of Burgundy, to delineate



Fig. 202.—"The Holy Virgin, St. George, and St. Donatian." By John van Eyck. (Museum of Antwerp.)

the features of his *fiancée*, the Princess Elizabeth (1428). The influence exercised by his labours is thought to have brought about that tendency to brilliancy and realism which, after its first manifestation in the earliest Spanish manner, gave way before the genius of Italy, only to reappear in all its power in the great national schools.

Among the best pupils that Van Eyck left behind him at Bruges, we must not omit the name of Hugo van der Goes, whose works are rare.

Roger van der Weyden, of whose paintings but few are now extant,

* This great altar-piece originally consisted of twelve panels. Of these the four most important are still in the church of St. Baron, at Ghent; of the remaining eight, six are at Berlin and two at Brussels.—A.

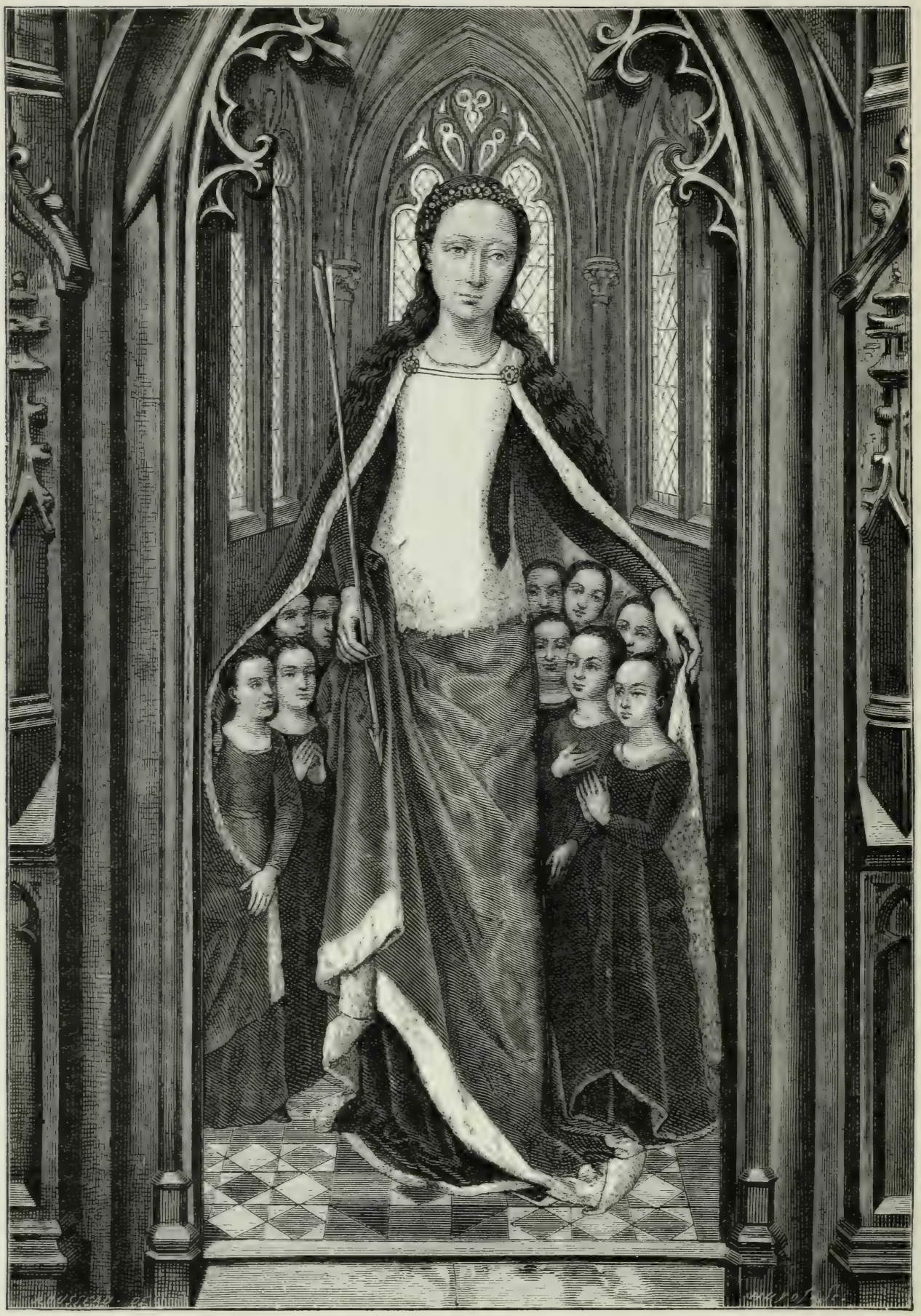


Fig. 203.—"St. Ursula." By Memling.

was the favourite pupil of Van Eyck, and the master of Memling, whose reputation was destined to equal, if not to surpass, that of the chief of his school. "Memling," says M. Michiels, so eminent a judge on this subject, "whose most ancient picture bears the date 1450, possesses more sweetness and grace than the Van Eycks. His figures charm by an ideal elegance; his expression never exceeds the limits of tranquil feeling and agreeable emotion. Quite contrary to John van Eyck, he prefers the slender and rich character of the Gothic (Fig. 203) to the heaviness and scanty detail of Roman architecture. His colouring, although less vigorous, is softer: the water, the woods, the grass, and the distances generally of his pictures affect us like a dream.

A kind of instinctive reaction was manifested in the pupil, but the master was not altogether forgotten. We shall, however, find elsewhere the effects of his direct influence; but in order not to have to return to the school of Bruges, we will first mention Jerome Bosch, who, contrary to his countryman Memling, sought after opposition of effects and singularities of invention; and next Erasmus, the great thinker and writer, who was also a painter in his day; lastly, Cornelius Engelbrechtsen, the master of Lucas van Leyden, born in 1494. Lucas was as famous with the pencil as with the graving tool, and introduced into all his works a powerful and sometimes strange originality which caused him to be looked upon as the first painter of "*genre*." He must close our list of the artists who opened out the paths which were destined to be followed, though with many a diversity of method and of style, by the great artists of the later Netherlandish schools.

When the Van Eycks made their appearance, German art—which, under the impulse of Stephen of Cologne, had appeared as if destined to direct the movement—allowed itself to be led away and influenced by the Flemish school, without, however, entirely divesting itself of the individual characteristics which are, to some extent, inherent in the region wherein it flourished. In Alsatia, we see the style peculiar to the school of Bruges showing itself in Martin Schön (1460); in Suabia, it had as its interpreter Frederick Herlen (1467); at Augsburg, it was Holbein the elder; at Nuremberg, it was first Michael Wohlgemuth, and after him Albert Dürer (1471), whose vigorous individuality did not fail to reflect the temperament of the Van Eycks.

"The works of Albert Dürer present a singular combination of the fantastic and the real (Fig. 204). The principal tendencies peculiar to the character of the northern mind are always to be found in them. The thoughts of the artist are always transporting him into a world of abstractions and chimeras; but the ever-present consciousness of the difficulties of life

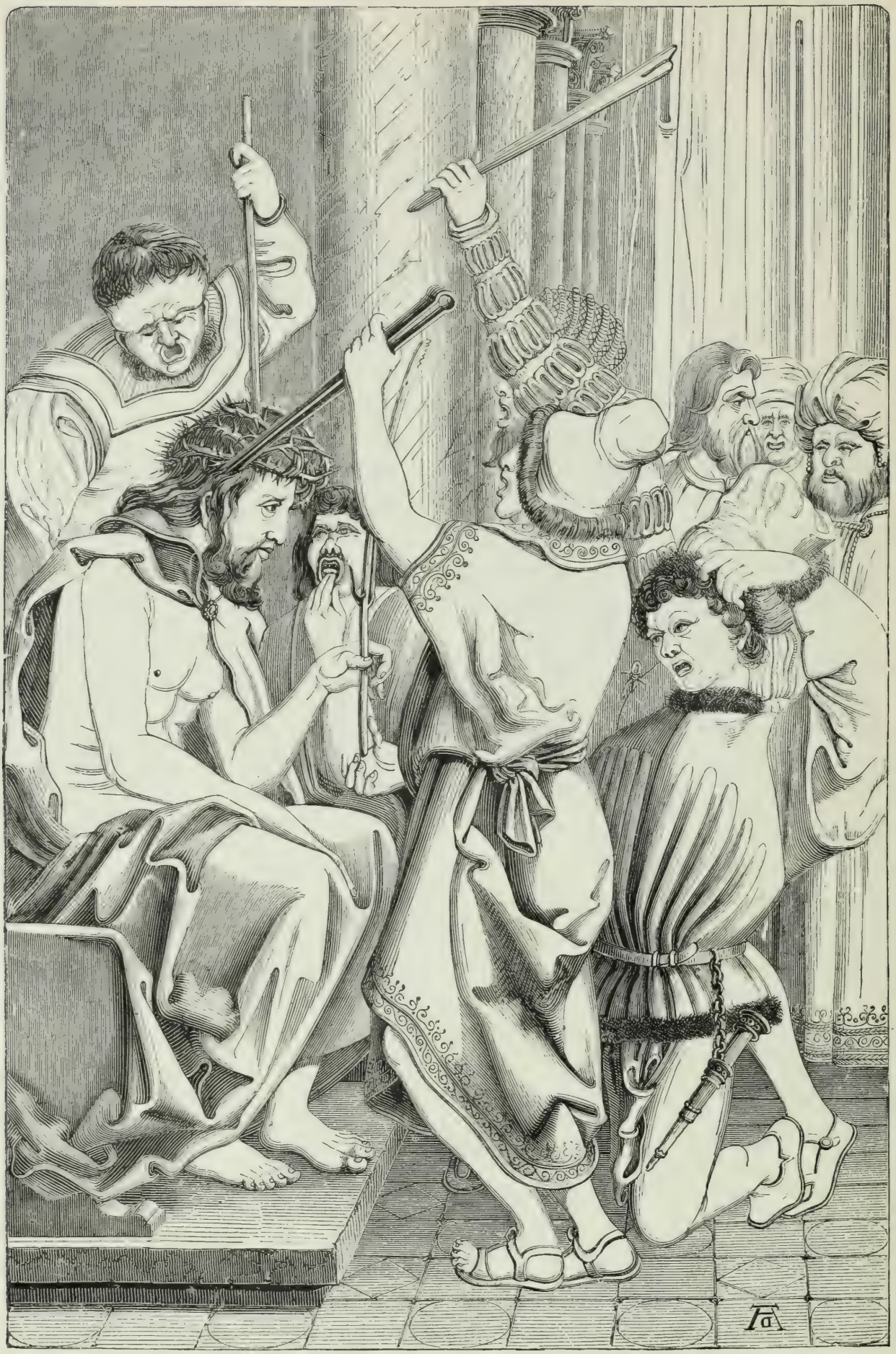


Fig. 204.—"Jesus Crowned with Thorns," painted on Wood by Albert Durer; a Facsimile traced from the original of the same size. (In the Collection of M. de Quedeville.)

under the cold northern sky always draws him back to the details of existence. On the one hand, therefore, he seems to love philosophical and even supernatural subjects; but, on the other, the minute details of his execution bind him down to earth. His models, his actions, his positions, the muscular development of his nude subjects, the innumerable folds of his draperies, the expression which he gives to joy, grief, and hatred, all seem to bear a manifest character of exaggeration. Added to this, he is deficient in grace; a rudeness entirely northern in its character closes the path to any of the softer qualities of art. The panels of Albert Durer all seem to have a touch of the antique barbarism of the Germanic hordes. He himself was in the habit of wearing his hair long, like the ancient German kings. Upon the whole, however, his beautiful colouring, the skilful firmness of his drawing, his grand characteristics, his depth of thought, the poetry, often terrible, of his composition, place him in the first rank of masters."

While Albert Durer was endeavouring to combine in his works every type of the strangest character, Lucas Cranach made it his study to represent with no less success pleasant legends or the most charming realities. He is the painter of artless youths, aerially veiled, and of sportive and enchanting virgins; and if some antique scene is created by his delicate and original pencil, it seems to be metamorphosed by a happy facility into something that appears to have the character of a German reminiscence (Fig. 205).

Between these two masters, so equally endowed with power in their respective lines of art, the great Holbein takes his place, as if embodying the rather abrupt vigour of the one, and the sentimental delicacy of the other. This painter's artistic career was carried out almost entirely in England, but the character of his genius belongs unquestionably to the country where he left behind him his "Dance of Death," a piece of tragic raillery justly held to be the most wonderful among such creations of fancy.

Albert Durer, who died in 1528, Lucas Cranach, and Holbein, who died in 1554, were destined to create a race of painters, and a host of successors were soon at work. But the movement, which was impeded by troubles of a religious character, died away in the terrible convulsions of the Thirty Years' War, and was never again renewed.

The era in which German art seemed all at once to decline was that wherein the Italian school flourished in full splendour, and exercised an unrivalled influence over every European country occupied by the Latin races. France yielded all the more readily to this foreign influence, because the Papal court at Avignon had already given an asylum to Giotto in the first place, and afterwards to Simone Memmi; both of whom,

and especially the last, have left master-like traces of their presence on French soil.

As a matter of fact, although French painting, regarded in the light of a national art, cannot boast of having spontaneously produced, as a thing



Fig. 205.—"Princess Sibylla of Saxony," by Lucas Cranach.

of home-growth, any of those completely independent works of which Germany and Italy are so proud; the memorials of French art at least bear witness that, during the long reign of Byzantine tradition, it never ceased to struggle with some force under the yoke; at a time, indeed, when Italy

and Germany themselves seemed, on the contrary, to bear the burden with the most submissive servitude.

The tenth century, in becoming subject to the influence of a foolish but heartfelt terror (the fear of the end of the world), marked a period of fatal obstruction to every kind of effort, and progress died away; but if we look beyond this we shall perceive that from the earliest days of the monarchy painting was held in honour, and painters themselves afforded proofs of power, if not of genius. We shall, for instance, find that the basilica of St. Germain-des-Prés, built by Childebert I., had its walls decorated with "elegant paintings." We shall find Gondebaud, the son of Clotaire, himself handling the pencil and "painting the walls and roofs of oratories." In the reign of Charlemagne, we discover the texts which the bishops and priests were compelled to paint on "the whole interior surface" of their churches, in order that the charm of the colouring and of the compositions might aid the fervour of faith in the congregations. But all this is but evidence recorded in the pages of the ancient chronicles. We have other testimony derived from works still existing, on which a judgment may be practically passed. Some frescoes discovered at St. Savin, in the department of Vienne, and at Nohant-Vicq, in the department of Indre, which may be attributed to the eleventh and twelfth centuries, attest, in all their rude simplicity, the efforts of a thoughtful art, and specially bear the stamp of a true spirit of independence.

The Sainte-Chapelle, in Paris, by its painted windows and the mural paintings of its crypt, asserts the real vitality of an artistic feeling, which only waited for the signal of a bolder spirit to rise to loftier things. Moreover, if other examples are wanting, there are manuscripts, on the ornamentation of which the most skilful painters have concentrated their powers, that would suffice to point out the tendencies and artistic standard of every succeeding age. (See the article on MINIATURE-PAINTING.) However little we may consult history, we scarcely ever fail to discover traces of certain groups of artists whose names or works have survived. Thus, a series of paintings preserved in the Cathedral of Amiens, as well as the "Sacre de Louis XII." and the "Vierge au Froment," in the museum at Cluny, prove to us the existence, at the end of the fifteenth century, of the school of Picardy, which possessed skill in composition, combined with a feeling for colour and a certain knowledge of handling. Thus, too, the researches of the learned have traced out the laborious career of the Clouet family, sung by Ronsard and others, but whose works are almost entirely lost; thus, also, we find the names of Bourdichon, Perréal Foucquet, who worked for Louis XI. and Charles VIII., and that of the peaceful King René of Provence, who thought it not beneath his

dignity to make himself the practical chief of a school whose nameless productions are still scattered over the south of France.

With the sixteenth century commenced the age of the great Italian painters. In 1515, Francis I. persuaded Leonardo da Vinci to come to France, and to afford the example of his wonderful genius. But the illustrious creator of "La Gioconda" (the famous portrait of Mona Lisa), burthened with years and worn out with work, visited France as if only to draw his last breath (1519). Andrea del Sarto, the graceful pupil of the severe Michel-Angelo, came to France in 1517; but, after having painted for his royal protector a few pictures, among which was the magnificent "Charity" in the Louvre, he again repaired to the Italian soil, to which his unhappy marriage recalled him to his doom.

In 1520 Raphael died, at the age of only thirty-seven years. Giulio Pippi (called *Giulio Romano*), Francesco Penni (called *il Fattore*), and Perino del Vaga, whom he named as his heirs and charged with the completion of his unfinished works, did their best to replace the illustrious dead. For a short time it might have been thought that the inspiration of the master still remained with his pupils; but soon a separation of this group of artists, who had found their principal power in unity of thought, took place; and, fifteen or twenty years after the tomb had closed on Raphael, the tradition of his school was nothing more than a glorious ruin.

Michel-Angelo, who died in 1563, was destined to have a longer career; but it was only to become a witness of the rapid decadence of the great movement he had helped to call forth. After Daniele da Volterra, the painter of the "Descent from the Cross," which is classed among the three most beautiful works that Rome possesses; after Vasari, who possessed a double title to celebrity as a skilful painter and the historian of the Italian schools; after Rosso, whose renown subsequently suffered at the court of France; and Bronzino, who sought success in taste and delicacy; the school of the great Buonarotti produced nothing but works which seemed to wander from exaggeration to bad taste. The dwarfs who attempted to walk in the footsteps of the giant were soon exhausted, and only succeeded in rendering themselves ridiculous.

The Venetian school, the great masters of which did not become extinct before the end of the sixteenth century, had its period of decadence at a later epoch; this will not come under our consideration. The Lombard school, which, by the deaths of Correggio and Parmigianino, had been left without its chiefs before the middle of this century (1534 and 1540), seemed for a moment as if it would disappear as it had risen. But in Michel-Angelo Caravaggio (Fig. 206) it met with a powerful master, who was able for some time to arrest the progress of its decadence.



Fig. 206.—"The Tribute Money." Picture by Caravaggio (Sixteenth Century), in the Uffizi, Florence.

We have as yet done little more than hint at the presence of Il Rosso, or *Maitre Roux*, at the court of France. He came in 1530, at the invitation of Francis I., to decorate the Palace of Fontainebleau. "His engraved work," says M. Michiels, "shows him to be a feeble and pretentious man, devoid both of taste and inspiration, who exhibited laboured refinement in the place of vigour, mistaking want of proportion for grandeur, and absence of truth for originality. Being nominated by the king as Canon of the Saint-Chapelle, he had as his assistants Leonard, a Fleming, the Frenchmen Michel Samson and Louis Dubreuil, and the Italians Lucca Penni, Bartolommeo Miniati, &c. But in 1531, Primaticcio arrived from Mantua, and a contest arose henceforth between them. Rosso having ended his days by suicide, Primaticcio remained master of the field. His most talented pupil decorated under his direction the magnificent ball-room. Primaticcio painted with less exaggeration and more delicacy and elegance than Rosso; but still he formed one of that troop of awkward and affected copists who exaggerated the errors of Caravaggio. His empire of forty years' duration, in the midst of a foreign population, was, however, an undisturbed one. Henry II., Francis II., Charles IX., and Catherine de Medicis, showed him no less favour than Francis I. He died in 1570, loaded with honours and riches.

"The number of French artists who allowed themselves to be influenced by the Italian method was considerable. At last a man of more vigorous character arose who would not permit false taste to rule him, and adopted all the improvements of modern art, without following in the footsteps of court favourites. His talents inaugurated a new period in the history of French painting. We are speaking of Jean Cousin, who was born at Soucy, about 1530; he adorned with his compositions both glass and canvas, and was, in addition, a skilful sculptor. His famous picture of the 'Last Judgment,' in the Louvre, justifies a high opinion of his skill. The colouring is harsh and monotonous, but the drawing of the figures and the arrangement of the piece prove that he had the habit of thought and also of depending on his own powers and of seeking out novel dispositions, producing effects hitherto unknown."

The beautiful composition we introduce here (Fig. 207) is taken from M. A. Firmin Didot's "Notice sur Jean Cousin," in which a large number of other subjects are reproduced; some of them may have been engraved by the painter himself. Like Albert Durer and Holbein, Jean Cousin did not disdain to apply his talents to the ornamentation of books.

Jean Cousin is generally looked upon as the real founder of the French school. After him, and by his side, we must place the Janets, who although of Flemish origin, are actually French in their style and the

character of their pictures. The most celebrated of them, François Clouet,



Fig. 207.—Composition by Jean Cousin. First Sketch of his "Last Judgment," from a Wood-Engraving in the Romance of "Gérard d'Euphrate." Paris, 1549. (Cabinet of M. A. F. Didot.)

portrayed, with a realism full of elegance and distinction, the nobles and beautiful ladies of the Court of Valois.

We should here close our remarks, were it not that we might be accused of an important omission in this review of the principal schools. For nothing has been said of the Bolognese school, whose origin, though not its maturity, belongs to the epoch we have made our study. But the material circumstances we now mention must be our justification : although the school of Bologna gave signs of existence in the thirteenth and again in the fourteenth century, it died away for a time, reviving only at the commencement of the sixteenth century, again to become extinct after the death of the



Fig. 208.—Sketch for the Madonna of the Casa Alba. Chalk-drawing by Raphael.

poetic Raibolini, called *Francia*, without having produced any of those great individualities to whom we are compelled to confine our attention.

We must, however, confess that this school, which suddenly retrieved its position at a time when all other schools were in a state of complete decadance, had three illustrious chiefs instead of one, and acquired the singular glory of reviving to some extent the *ensemble* of the noblest traditions. But it was not till the latter part of the sixteenth century that Bologna witnessed the opening by the Carracci of that studio whence were destined to proceed Guido, Albano, Domenichino, Guercino, Caravaggio, Pietro of Cortona and Luca Giordano, a phalanx of talented men who were to become the honour of an age into which it does not form a portion of our task to follow them.

ENGRAVING.

Origin of Wood-Engraving.—The St. Christopher of 1423.—"The Virgin and Child Jesus."—The earliest Masters of Wood-Engraving.—Bernard Milnet.—Engraving in *Camaïeu*.—Origin of Engraving on Metal.—The "Pax" of Maso Finiguerra.—The earliest Engravers on Metal.—Niello Work.—The Master of 1466.—The Master of 1486.—Martin Schöngauer, Israel van Mecken, Wenceslaus of Olmutz, Albert Durer, Marc Antonio, Lucas van Leyden.—Jean Duret and the French School.—The Dutch School.—The Masters of Engraving.

ALMOST all authors who have devoted themselves to the investigation of this subject have erroneously asserted that engraving on metal was naturally derived from engraving on wood. Nevertheless, anyone who gives but a slight consideration to the difference existing between the two processes must be led to the belief that the two arts must have resulted from two distinct inventions. In wood-engraving, the impression is, in fact, formed by the portions of the block which are in relief; while in engraving on metal, the incised strokes give the lines of the print. Now, no one who has any technical knowledge can for a moment doubt that, in spite of the similar appearance of their productions, there is a radical difference in the starting-points and modes of execution of these two methods.

We certainly must consider it probable that the appearance of prints produced by wood-engraving may have suggested the idea of seeking to obtain a similar or better result by some other process; but that a process should be assimilated, as if by affiliation, to another diametrically opposed to it is a view we do not feel called upon to accept without reservation.

Be this as it may, certain authors look upon wood-engraving as having been invented in Germany at the commencement of the fifteenth century. Others have derived it from China, where it was in use in the year 1000 of our era. Others, again, propound the opinion that the art of printing stuffs by means of engraved blocks was employed in different parts of Asia, to which it had been imported from ancient Egypt, at a period long before it was first thought of in Europe. These hypotheses being admitted, the whole question reduces itself into an inquiry as to the way in which the art

made its entrance into Western Europe in the first half of the fifteenth century; this being the earliest date at which we find engravings made in Germany, France, and the Low Countries.

The most ancient *dated* impression known of a cut engraved on wood is a



Fig. 209.—"The Virgin and Infant Jesus." Fac-simile of a Wood-Engraving of the Fifteenth Century. (Bibl. Nat., Paris.)

St. Christopher, without either mark or name of its author, bearing a Latin inscription and the date of 1423. This specimen is so roughly engraved, and in drawing is so faulty, that it is only natural to assume it must be one of the earliest attempts at wood-engraving. There is, however, an engraving

in the Imperial Library, Paris, representing the Virgin holding the Child Jesus seated in her arms (Fig. 209), which may perhaps be considered an earlier specimen than the St. Christopher. The back of the niche is a kind of mosaic, formed of diamond-shaped quadrilaterals; the *aureola* and ornaments of the niche are coloured a yellowish brown. There is, however, one singularity in this engraving which testifies to its great antiquity; it is printed on paper made of cotton, and is unsized, and the impression sinks so deeply into it that it may be seen nearly as well on the back of the print as on the front. We must not omit to mention another engraving, preserved in the Royal Library, Brussels; this is also a Virgin and Child, surrounded by four saints (Fig. 210). It is a composition of a somewhat grand style, and does not agree very well with the date, MCCCCXVIII., which is seen at the foot of the print.

We must, doubtless, attribute to nearly the same time some specimens of playing-cards,—these we have already mentioned when dealing specially with this subject; and also a series of figures of the Twelve Apostles with Latin legends, underneath which are the same number of phrases in French, or rather in the ancient dialect of Picardy, reproducing the whole text of the Decalogue; one of these xylographic plates may be seen in the chapter on "PRINTING." In these engravings each figure is standing up, clothed in a long tunic, and covered with a wide mantle; the ink, so to speak, is bistre, and the mantles are coloured red and green alternately. The Apostles all bear the symbolical sign which distinguishes them, and are surrounded with a long fillet, whereon is traced in Latin the sentence of the Creed attributed to each, and one of the ten Commandments. St. Peter, for instance, has for his motto this French sentence, "Gardeis Dieu le roy moult sain;" St. Andrew, "Ne jurets point son nome en vain;" St. John, "Père et Mère tosjours honoras;" St. James the Greater, "Les fiestes et dymeng, garderas," &c.

There are other engravings belonging to the middle of the fifteenth century which make known the fact that the art of engraving was practised by several artists in France; and that without doing any injustice to Germany we can attribute several anonymous works to French masters. But we must in any case claim the very characteristic works of an engraver named Bernard Milnet. In the engravings of this master there are neither lines nor cross-hatching; the ground of the print is black; the lights are formed by an infinite number of white dots varying in size according to the requirement and taste of the artist. This engraver does not appear to have had any imitators; and, to tell the truth, his mode of operation must have presented many difficulties in execution. There are only six known specimens of his work—a "Virgin with the Child Jesus," "St. Catherine

Kneeling" (Fig. 211), the "Scourging of Christ," a group of "St. John St. Paul, and St. Veronica," a "St. George," and a "St. Bernard."



Fig. 210.—"The Virgin and Child." A Wood-Engraving of the Fifteenth Century (?).
(Bibl. Roy., Brussels.)

Although engravings of this time are now extremely rare, it does

not necessarily follow that they were equally scarce at the dates when they were executed. M. Michiels, in his "Histoire de la Peinture en Flandre," says that, "according to ancient custom, on feast-days the Lazarists, and others belonging to religious orders who were accustomed

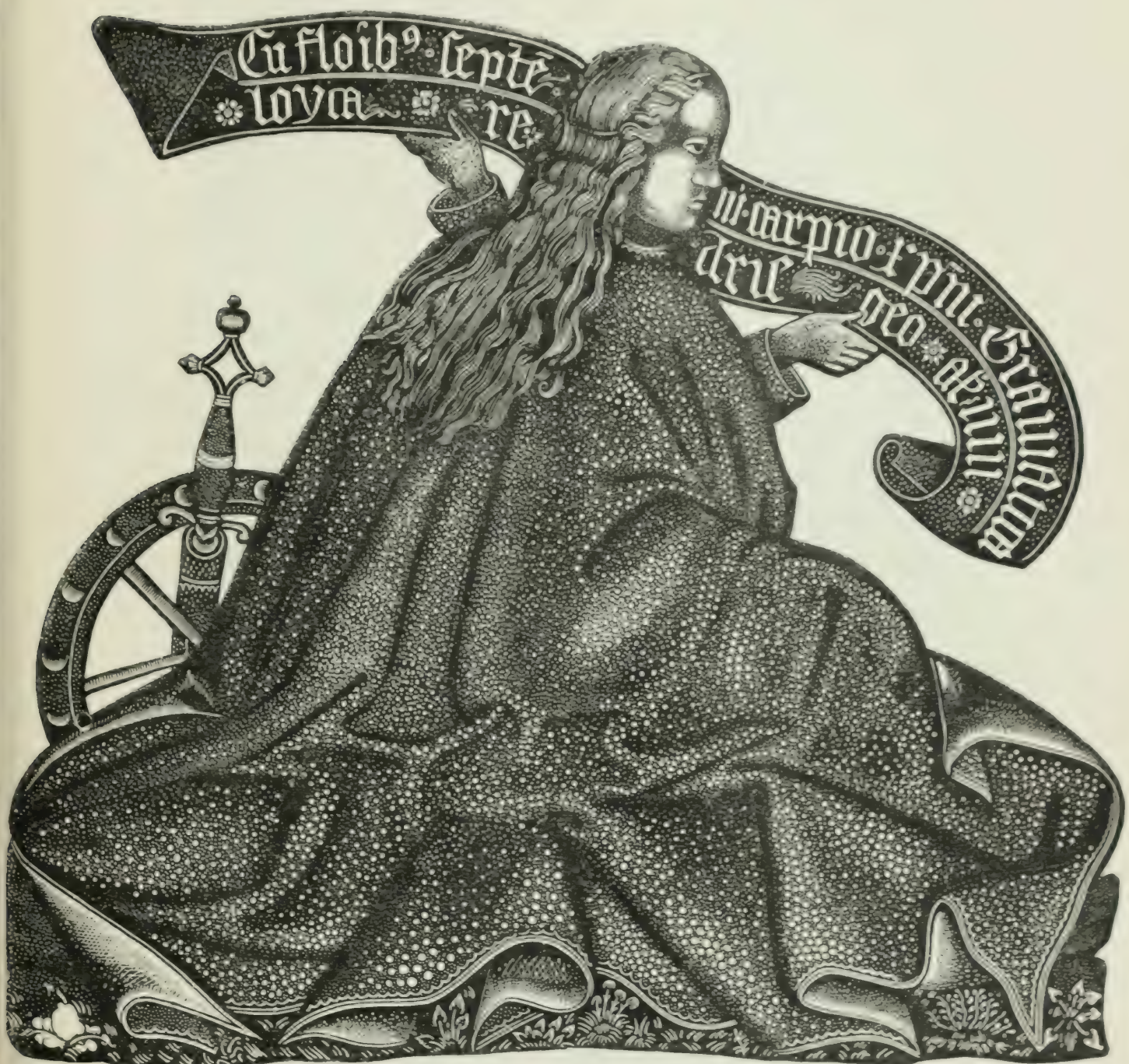


Fig. 211.—"St. Catherine on her Knees." Fac-simile of an Engraving on Wood, by Bernard Milnet, called the "Master of the dotted backgrounds." (Bibl. Nat., Paris.)

to nurse the sick, carried in the streets a large wax candle ornamented with mouldings and glass-trinkets, and distributed to the children wood-engravings illuminated with brilliant colours, and representing sacred subjects. There must, therefore, have been a considerable number of these engravings."

In the sixteenth century wood-engraving, improved by the pupils of



Fig. 212.—The Archdukes and High Barons of Germany assisting, in State Costume, at the Coronation of the Emperor Maximilian. A fragment taken from a large connection of Engravings, entitled the "Triumph of Maximilian I.," by J. Burgkmair. (Sixteenth Century.)

Albert Durer, and especially by John Burgkmair (Fig. 212), was very

extensively developed; and the art was then practised with a superiority of style which left far behind the timid attempts of the preceding century.

The works of most of the wood-engravers of this period are anonymous; nevertheless, the names of a few of these artists have survived. But it is only by an error that, in the nomenclature of the latter, certain painters and designers, such as Albert Durer, Lucas van Leyden, and Lucas Cranach, have long been made to figure. There are wood-engravings which do actually bear the signatures or monograms of these masters; but the fact is, that the latter were often in the habit of drawing their designs on the wood, as is frequently the practice with artists in our own day, and the engraver, or *formschneider*, in reproducing the composition drawn with a pencil or pen has copied also the signature which the designer of the subject added. An error often committed by writers may be thus easily set right.

We must not quit the subject of wood-engraving without mentioning engraving in *chiaro-oscuro*, a process of Italian origin,* in which three or four blocks, applying in succession to the print uniform tints of more or less intense tones, ultimately produced engravings of a very remarkable effect, imitating drawings with the stump or the pencil. At the commencement of the sixteenth century several artists distinguished themselves in this mode of engraving, especially Ugo di Carpi, who worked at Modena about the year 1518; Antonio Fantuzzi, a pupil of Francis Parmigianino, who accompanied and assisted Primaticcio at Fontainebleau; Gualtier, and Andrew Andreani; and lastly, Bartholomew Coriolano, of Bologna, who would have been the last engraver in this style, were it not for Antonio M. Zanetti, a celebrated Venetian amateur, who was still nearer to us in point of date.

We must now go back to the year 1452, which is generally fixed upon as the date of the invention of engraving on Metal (Fig. 213†). When discussing the subject of "Goldsmith's Work," we mentioned, among the pupils of the illustrious Ghiberti, Maso Finiguerra, and stated that this artist had engraved on silver a "Pax" intended for the treasury of the Church of St. John. Certain writers having recognised in a print now in the Imperial Library of Paris, and also in another print in the Library of the Arsenal, an exact impression of this engraving, were led to attribute to the celebrated Florentine goldsmith the honour of an invention in which he might perhaps have had no share at all. Possibly this process of printing

* The invention is also claimed by the Germans. The process, however, by which Mair and Cranach produced, in 1499—1500, some impressions of similar appearance to those of Ugo da Carpi was substantially different. They began with a copper-plate, on which their outlines were engraved.—A.

† The legend which accompanies the engraving here referred to is in old Italian; it relates to the famous prophecy of Isaiah as to the birth of Christ (Isaiah vii. 14).

off an impression, which was a very natural thing to do, had been actually



Fig. 213.—The Prophet Isaiah, holding in his hand the saw which was the instrument of his martyrdom. (Fac-simile from an Engraving on Copper by an unknown Italian Master of the Fifteenth Century.)

practised by goldsmiths long before Finiguerra; they wished, doubtless, to

preserve a pattern of their *niello-work*, or to see how it progressed in its various stages. The proofs thus taken off by hand having been lost, Finiguerra may have been considered the originator of a method which he only applied as a matter of course to his goldsmith's work. The two circumstances—that the plate is made of silver and not of any common metal, and that it may be classed among the numerous *nielli*, engraved plates of decorative goldsmith's work, which have been handed down to us and are of even earlier dates—will alone suffice, in our opinion, to dispose of the idea that this work was expressly executed in order to furnish impressions on paper. It was nothing but chance that in this case introduced the name of Finiguerra, which would not have become known in this connection if it had not been for the preservation of two ancient impressions of his *niello-work*, while those taken from other and perhaps older plates had been destroyed. Thus the date, or the asserted date, of the invention of engraving on metal was fixed by the ascertained date of the piece of goldsmith's work.

Be this as it may, the print of the "Pax," or rather of the "Assumption," engraved by Finiguerra, has a right, in the opinion of all collectors, to bear the title of the earliest print from metal. Jesus Christ, seated on a lofty throne and wearing a cap similar to that of the Doges, places with both his hands a crown on the head of the Virgin, who, with her hands crossed upon her breast, is seated upon the same throne; St. Augustine and St. Ambrose are kneeling; in the centre, below, and on the right, several saints are standing, among whom we can distinguish St. Catherine and St. Agnes; on the left, in the rear of St. Augustine, we see St. John the Baptist and other saints; lastly, on both sides of the throne a number of angels are blowing trumpets; and above are others holding a streamer, on which we read: "ASSVMPTA . EST . MARIA . IN . CELVM . AVE . EXERCITVS . ANGELORVM;" "Mary is taken up into Heaven. Hail, army of angels!"

The first of the impressions of this *niello* found its way into the Royal Library with the Marolles Collection, bought by Louis XIV. in 1667; the other was discovered only in 1841, by M. Robert Dumesnil, who, in the Library of the Arsenal, was turning over the leaves of a volume containing engravings by Callot and Sebastian le Clerc. This latter impression, though taken on inferior paper, is nevertheless in a much better state of preservation than the other; but the ink is of a greyer hue, and one might readily fancy that, as M. Duchesne the learned writer asserts, it was printed before the final completion of the plate.

In support of the opinion which we before indirectly expressed, that the practice of taking impressions from engraved plates of metal might well be a kind of fortuitous result of a mere professional tradition incidental to the

goldsmith's art, we may remark that most of the engravings which have been handed down to us as belonging to the era fixed upon for the invention of engraving, are the work of Italian goldsmith-engravers. More than four hundred specimens of this date have been preserved; among the artists we must mention Amerighi, Michel-Angelo Bandinelli, and Philippo Brunelleschi, of Florence; Forzoni Spinelli, of Arezzo; Furnio, Gesso, Rossi, and Raibolini, of Bologna; Teucreo, of Siena; Caradosso and Arcioni, of Milan; Nicholas Rosex, of Modena, of whose work we have three *nielli* and more than sixty engravings; Antonio Pollajuolo, who engraved a print called the "Fight with Cutlasses," representing ten naked men fighting; lastly,



Fig. 214.—Fac-simile of a *Niello* executed on Ivory, from the original design of Stradan, representing Columbus on board his Ship, during his first Voyage to the West.

the most skilful of the metal-chasing goldsmiths after Finiguerra, Peregrino of Cesena, who has left his name and his mark on sixty-six *nielli*.

More special mention must be made of Bartholomew Baldini, better known under the name of Baccio, to whom we owe, in addition to some large engravings both of a sacred and of a mythological character, twenty vignettes designed for the folio edition (1481) of Dante's "Inferno;" of Andrea Mantegna, a renowned painter, who himself engraved many of his own compositions; and of John van der Straet, called *Stradan* (Fig. 214), who executed at Florence many remarkable plates.

We find in Germany an engraver who dates several of his works in the year 1466, but on none of them has he left more than his initials, E. S.

This has not failed to tax the ingenuity of those who would establish his individuality in some authentic way. Some have agreed to call him Edward Schön or Stern, on account of the stars he frequently introduces into the borders of the vestments of his figures; one asserts that he was born in Bavaria, because in a specimen of his works is the figure of a woman holding



Fig. 215.—Fac-simile of the letter N from the "Grotesque Alphabet," engraved by the "Master of 14[illegible]."

a shield emblazoned with the arms of that country; another believes him to have been a Swiss, because he twice engraved the "Pilgrimage of St. Mary of Einsiedeln," the most celebrated in the country. But those amateurs who, upon the whole, think more of the work than the workman, are content to designate him as *the Master of* 1466.

This engraver has left behind him three hundred examples, most of them of small dimensions, among which, independently of sundry very curious compositions, we must notice two important series, namely, an *Alphabet* composed of grotesque figures (Fig. 215), and a pack of *Numeral Cards*, the greater part of which are in the Imperial Library.

At almost the same epoch Holland also presents us with an anonymous engraver, who might be called *the Master of* 1486, from the date on one only of his engravings. The works of this artist, whose manner exhibits a powerful and original style, are very rare in any collections not belonging to the country in which he worked. The Cabinet of Engravings at Amsterdam possesses seventy-six of them, while that of Vienna has but two, that of Berlin one only, and that of Paris six, among which we may remark "Samson sleeping on the knees of Delilah," and "St. George," on foot, piercing with his sword the throat of the dragon which menaced the life of the Queen of Lydia.

We have still three comparatively celebrated engravers to mention before reaching the epoch at which Marc-Antonio Raimondi in Italy, Albert Durer in Germany, and Lucas van Leyden in Holland, all simultaneously flourished.

Martin Schöngauer, for some time designated by the name of Martin Schön, who died at Colmar in 1488, was a good painter as well as a skilful engraver. More than one hundred and twenty specimens of his work are known, the most important of which are—"Christ bearing His Cross," "The Battle of the Christians" (waged against the infidels by the apostle St. James), both very rare compositions of large size; the "Passion of Jesus Christ," the "Death of the Virgin," and "St. Anthony tormented by Demons," one proof of which, it is said, was coloured by Michel-Angelo. We must add (and this circumstance shows again the kind of direct relation which we have already noted as existing between engraving and goldsmith's work), that Martin Schöngauer also engraved a pastoral staff and a censer, both of very beautiful workmanship.

Israel van Mecken (or Meckenem), supposed to be a pupil of Francis van Bocholt, as he worked at Bocholt previous to the year 1500, is, of all German engravers of this epoch, the one whose works are most extensively known. The Cabinet of Engravings in the National Library, Paris, possesses three volumes of his engravings, containing two hundred and twenty-eight superb examples; among these we must especially notice a composition engraved on two plates of the same height, "St. Gregory perceiving the Man of Sorrows at the Moment of the Mass." We must confine ourselves to the mention, in addition, of his "St. Luke painting the Portrait of the Virgin;" "St. Odile releasing from Purgatory, by his prayers, the Soul of his Father, Duke Etichon;" "Herodias" (Fig. 216); and "Lucretia

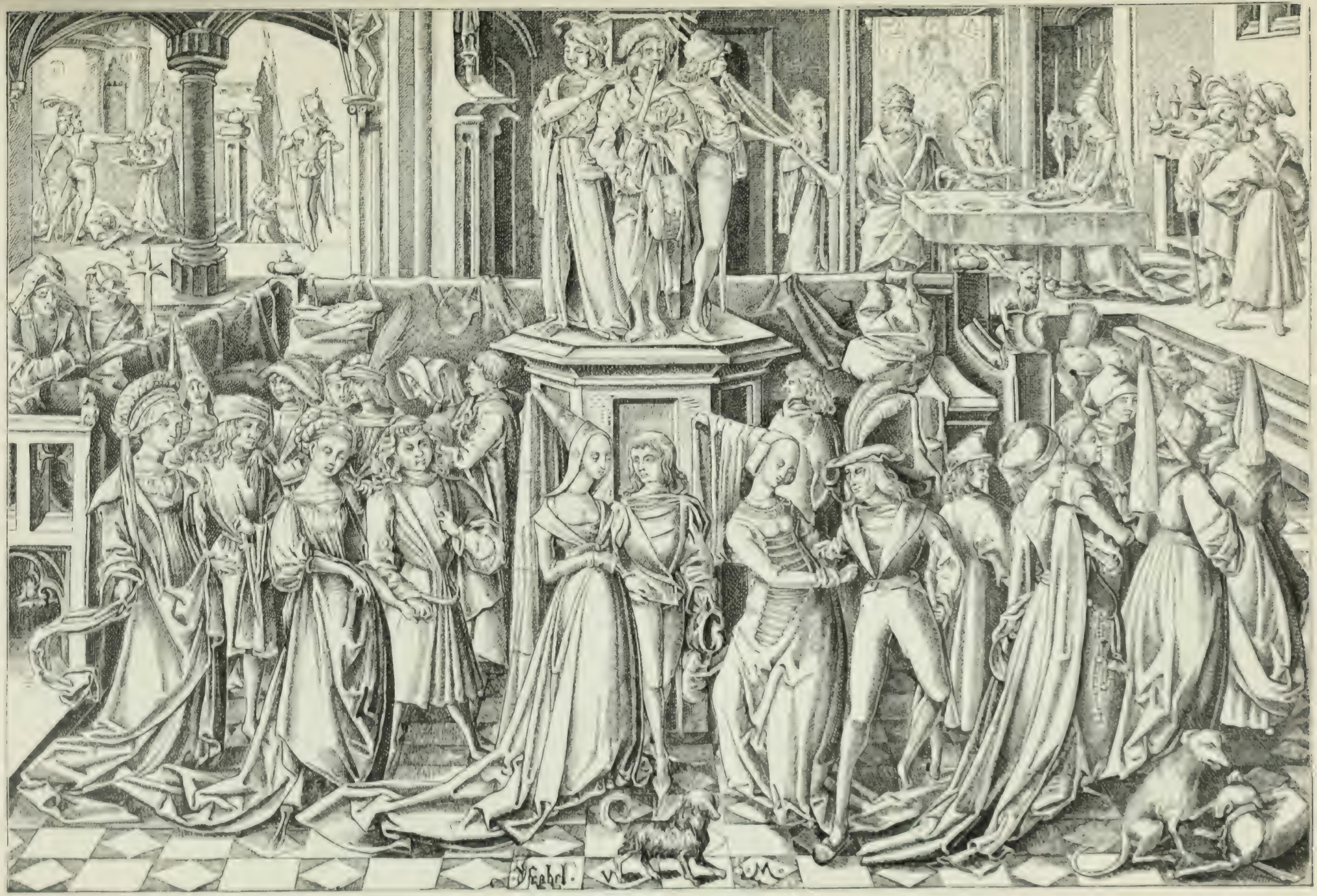


Fig. 216.—"Herodias," a Copper-plate Engraving, by Israel van Mecken.

killing herself in the presence of Collatinus and others," which last is the only subject this artist has taken from profane history.

We mention Wenceslaus of Olmutz, who was engaged in engraving from the year 1481 to 1497, with the especial object of describing an allegorical print due to his *burin;* it may serve to give a notion of the fantastic tendency impressed on the ideas of the day by the religious dissensions which arose at this epoch between several princes of Germany and the court of Rome. This print, or rather this graphic satire, most of the allusions in which are now lost to us, represents the monstrous figure of a woman entirely naked, seen in profile, and turning to the left, her body covered with scales, with the head and mane of an ass; her right leg terminates in a cloven foot, and the left in a bird's claw; her right arm is terminated by the paw of a lion, and the left by a woman's hand. The back of this fantastic being is covered with a hairy mask, and in place of a tail she has the neck of a chimera, with a deformed head from which darts a serpent's tongue. Above the engraving is written, "*Roma Caput Mundi*" ("Rome, the head of the world"). On the left hand is a three-storied tower, upon which a flag adorned with the keys of St. Peter is floating. On the château is written, "*Castelagno*" (Castle of St. Angelo); in the foreground is a river, upon whose waves is traced the word "*Tevere*" (the Tiber); lower still is the word "*Ianvarii*" (January), below the date 1496; on the right, in the background, is a square tower, upon which is written, "*Tore Di Nona*" (Tower of the Nones); on the same side, in front, is a vase with two handles, and in the centre of the lower part the letter W, the monogrammatic signature of the engraver. Our interest in this plate is increased by the date it bears; for, being engraved by means of *aquafortis,* it proves that Albert Durer is wrongfully regarded as the inventor of this mode of engraving, more expeditious than with the *burin,* as the oldest *aquafortis* work of Albert Durer is dated 1515, that is to say, nineteen years later than that of Wenceslaus of Olmutz.

We now come to three great artists who, at a period in which the art of engraving had made the most remarkable progress, availed themselves of it for producing works which eminently characterise each master respectively.

Albert Durer, born at Nuremberg in 1471, was a vigorous painter, and was not less remarkable for the productions of his *burin* and etching-needle. We do not intend to describe all his works, though all are worthy of notice, but must content ourselves with mentioning "Adam and Eve standing by the Tree of Knowledge of Good and Evil," a small plate of delicate workmanship and admirable perfectness of design; the "Passion of Jesus Christ," in a series of sixteen plates; "Christ in the Garden of Gethsemane," the first work executed by this master by means of



Fig. 217.—"St. Hubert praying before the Cross borne by a Stag." Engraved by Albert Durer.

aquafortis, then a new method, which gave rise to an idea, not dispelled for some time, that this print and several others were engraved on iron or tin; several examples of the "Virgin and Child," which are all remarkable for expression and simplicity, and have received odd *soubriquets* on account of some accessory object which accompanies them (for instance, the "Virgin with the pear, butterfly, ape," &c.); the "Prodigal Son keeping Swine," a composition in which the painter himself is represented; "St. Hubert praying before the Cross borne by a Stag" (Fig. 217), a very rare and beautiful plate; the "Knight and the Lady;" lastly, "Death and the Knight," a *chef-d'œuvre*, dated 1515, and representing Francis of Sickingen, who was destined to be the firmest supporter of Luther's Reformation.

Marc-Antonio Raimondi, born at Bologna about the year 1475, was first a pupil of Francis Raibolini, and afterwards of Raphael,* whose style he often followed, and in his compositions did his utmost to imitate his pure and noble manner. Everything in his designs is ideally true, and all is harmonious in the *ensemble* of his works. Most of his engravings still existing are very much sought after, and as any description we could give would convey but an imperfect idea of the excellence of these works, the strongest testimony in favour of their merit will be to mention the high prices given for certain prints by this master at the public sale which took place in 1844. For example:—"Adam and Eve," a print after Raphael, 1,010 francs (£40); "God commanding Noah to build the Ark," from the same master, 700 francs (£28); the "Massacre of the Innocents," 1,200 francs (£48); "St. Paul preaching at Athens," 2,500 francs (£100); the "Lord's Supper," 2,900 francs (£116); the "Judgment of Paris," which is regarded as the *chef-d'œuvre* of Marc Antonio, 3,350 francs (£134); three pendentives of the "Farnesina," 1,620 francs (£64 10*s*.), &c. Subsequently these enormous prices have been even exceeded.

Lucas van Leyden, born in 1494, and, like Albert Durer, a clever painter as well as skilful engraver, has left about eighty plates, the most remarkable of which are "David playing the Harp before Saul;" the "Adoration of the Magi;" a large "Ecce Homo," engraved by the artist at the age of sixteen; a "Peasant and Peasant-woman with a Cow;" the "Monk Sergius killed by Mahomet;" the "Seven Virtues;" a plate called the "Little Milkmaid," very rare; lastly, a "Poor Family travelling," of which only five proofs are known; they were bought for sixteen louis d'or by the Abbot of Marolles, when he formed his cabinet of prints, which became one of the richest additions to the French National Library.

* That Marc-Antonio studied painting under Raphael, as is here implied, is more than doubtful, though he engraved a very large number of that master's compositions, and was highly esteemed by him.—D.



Fig. 218.—"Phalaris, Tyrant of Agrigentum, causing Victims destined to be burnt alive to be shut up in a Brazen Bull." Engraved by P. Woeiriot. (French School of the Sixteenth Century.)

In a befitting rank below these famous artists we may class a French engraver, Jean Duret, born at Langres in 1488, who was goldsmith to Henri II., and executed several beautiful allegorical plates on the loves of the king and Diana of Poitiers, as well as twenty-four compositions taken from the Apocalypse; also Pierre Woeiriot (or Voeiriot), an engraver and goldsmith of Lorraine, born in 1531, who produced numerous fine works down to the end of the century; the most famous of them, designated by the name of the "Bull of Phalaris" (Fig. 218), represents the tyrant of Agrigentum shutting up human victims in the brazen bull.



Fig. 219.—"Repose of the Holy Family." Engraved by A. Altdorfer.

There were at work in Italy at the same epoch Augustine of Musi (Agustino de Musis, called the Venetian), Giacomo Caraglio, the Ghisis, Eneas Vico; in Germany, Altdorfer (Fig. 219), George Pencz, Aldegrever, Jacque Binck, Bartel and Hans Sebald Beham (Fig. 220), who are designated under the collective name of the "Little Masters;" in Holland, Thierry (Dirk) van Staren.

In the course of the sixteenth century engraving reached its culminating point, and at that time Italy and Germany no longer took the lead in this branch of art, for the most skilful and renowned masters then belonged to Holland and France.

Those of Holland were Henry Goltzius (or Goltz), born in 1558, and his pupils Matham and the Mullers, whose vigorous gravers might remind one of brilliant effects of colour without any loss of purity of design; the two brothers, Boetius and Scheltius Bolswaert, so called from their native town Bolswaert, born in 1580 and 1586 respectively; Paul Pontius and Lucas Vosterman, both born in 1590, whose engravings so well represent the *chiaroscuro* and colour of Van Dyck and Jordaens.

In France was Jacques Callot, born in 1594, whose works were both numerous and original, and enjoyed a somewhat popular celebrity; among them the most worthy of remark are the "Temptation of St. Anthony," the "Fair of the Madonna d'Imprunette," "The Garden" and the "Parterre," both scenes in Nancy; as well as several series, such as the "Miseries of



Fig. 220.—Ferdinand I., Brother of Charles V. Engraved by Bart. Beham in 1531.

War," &c. There were also Michael Lasne, born in 1596, who engraved a number of historical portraits; and Etienne (Stephen) Baudet, who reproduced eight large landscapes after Poussin.

A separate notice is reserved for Jonas Suyderoef, born at Leyden in 1600, who, by combining the graver, the etching-needle, and aquafortis, gave an exceptional character to his works. Among the two hundred engravings by this master the most admired are the "Treaty of Munster," after Terburg's picture in the London National Gallery; and the "Burgomasters of Amsterdam receiving the News of the Arrival of Queen Mary of Medicis," after De Keyser.

We are now touching closely upon, even if we have not already exceeded, the limits to which we are prescribed by the scope of our notices; but as the history of engraving does not present, like that of so many other arts, the spectacle of a grievous decadence after a period of brilliancy, we cannot without regret come to a conclusion, when mention might still be made of many distinguished names among the engravers of every country.

We should also scarcely be able to pass on to another subject without having alluded to those men whose works belong, indeed, to the following epoch, but the date of whose birth connects them with that we are considering. We could not, in fact, assume to have treated of engraving had we passed over in silence Van Dyck, Claude Lorraine, and Rembrandt (Fig. 221), those greatest of masters who were equally celebrated for painting and engraving. In truth, perhaps, we could not say anything of them which would not be superfluous.

Who is not acquainted with at least some few works by Van Dyck? This celebrated pupil of Rubens has left in painting as many masterpieces as canvases; and in engraving he knew how to give to his etching-needle so much *verve* and spirit, that his prints are perfect models to follow, and have never been surpassed. Who is there that does not admire the landscapes of Claude Lorraine, which are equally remarkable for the light diffused over them, and the misty atmosphere that tempers its brilliancy? We all know this master produced, as if for recreation, certain engravings which for truth and melancholy (*mélancolie*) are hardly surpassed by his marvellous paintings. And how can we speak of Rembrandt without seeming to be commonplace? For his fertile and varied talent no difficulty ever seemed to exist; a theme, the most simple and common in appearance, becomes in his hands the basis of a masterly conception; nature, to which he seemed to lend a new life, while seizing upon its most striking realities, was for him an inexhaustible source of fine conceptions.

The mention of these artists on the threshold of an epoch into which we are precluded from following them, must suffice to convey some idea of the

height that art had attained during this century. We will, however, enumerate after them a few names among foreign engravers. The Flemish artists, Nicolas Berghem and Paul Potter, both great animal-painters, have left some prints in aquafortis for the possession of which amateurs contend; Wenceslaus Hollar, an English artist, though a Bohemian by birth, engraved



Fig. 221.—"Portrait of John Lutma, Goldsmith of Groningen." Designed and Etched by Rembrandt.

"The Queen of Sheba," after Veronese; to Cornelius Visscher, a Dutchman, we owe the famous "Seller of Ratsbane;" and to Stefano della Bella, of Florence, the "View from the Pont-Neuf, Paris." Rupert, the Prince-Palatine (nephew of Charles I. of England), was the inventor of mezzo-

tinto ;* and William Faithorne, an Englishman, engraved several portraits after Van Dyck. France also presents to our notice some justly celebrated names. The views of towns by Israel Silvestre, of Nancy, are very beautiful; François de Poilly, of Abbeville, reproduced several pictures by Raphael; Jean Pesne, of Rouen, himself a painter, engraved especially after Poussin; Antoine Masson, of Orleans, has left a print of the "Pilgrims of Emmaus," after the picture by Titian, which is regarded as a *chef-d'œuvre*. Lastly, Robert Nanteuil, of Rheims, the famous portrait-painter, engraved Péréfixe, Archbishop of Paris, four times; the Archbishop of Rheims five times; Colbert six times; Michel Le Tellier, Chancellor of France, ten times; Louis XIV. eleven times, and Cardinal Mazarin fourteen times.

* It is now known that mezzotint was the invention of Ludwig von Siegen, who was born in 1609 and died about 1680. The first plate engraved in the method was a portrait of the Landgravine of Hesse, which is dated 1643. Prince Rupert was no more than one of its earliest practitioners.—A.



Fig. 222.—"The Holy Virgin." Engraved by Aldegrever in 1527.

SCULPTURE.

Origin of Christian Sculpture.—Statues in Gold and Silver.—Traditions of Antique Art.—Sculpture in Ivory.—The Iconoclasts.—Diptychs.—The highest Style of Sculpture follows the Phases of Architecture.—Cathedrals and Monasteries from the Year 1000.—Schools of Burgundy, Champagne, Normandy, Lorraine, &c.—German, English, Spanish, and Italian Schools.—Nicholas of Pisa and his Successors.—Position of French Sculpture in the Thirteenth Century.—Florentine Sculpture and Ghiberti.—French Sculptors from the Fifteenth to the Sixteenth Century.



IT is an indisputable fact that the epoch in which the Emperor Constantine, by receiving baptism, effected the triumph of Christianity, developed a kind of revival in the movement of the decorative arts, the ideas of which were then exclusively directed to the exaltation of the new faith. To construct numerous basilicas, to adorn them magnificently, and by means of the chisel to embody in a material form the spiritualism of the Gospel, were the objects of this pious monarch. Gold and silver were the less spared, as marble was considered too common a substance in which to represent the sacred personages of the divine hierarchy. At Constantinople, in the basilica constructed by Constantine, there was represented, on one side of the apse, a seated figure of our Saviour surrounded by His twelve disciples; on the other side, Christ was represented also sitting on a throne and accompanied by four angels, who had precious stones inlaid to represent their eyes. All these figures were life-size, and made of silver *repoussé*, each one weighing from ninety to a hundred and ten pounds. In the same church, a canopy representing the Apostles and cherubim in relief, of polished silver, weighed more than two thousand pounds. But these splendours were even eclipsed by those of the font of porphyry in which Constantine received baptism from the hands of Bishop Sylvester. The part whence the water flowed away was adorned with massive silver over an extent of five feet, and for the purpose three thousand pounds of this precious metal were employed. In the centre, columns of gold supported a lamp of the same metal weighing fifty-two pounds, in which, during the feast of Easter, two hundred pounds of perfumed oil were burnt. The water was poured into the font through

the image of a lamb of solid gold, weighing thirty pounds. On the right was a life-size representation of our Saviour, weighing a hundred and seventy pounds; on the left was a statue of John the Baptist of the same size; while seven hinds of silver placed around the font, and pouring water into the basin, harmonised in their dimensions and materials with the other figures.

We would not assert that these works, pompously enumerated by Anastasius, the Librarian, corresponded in purity and elevation of style with the richness of the materials employed; for we know, on the contrary, that in order to comply with the wishes of the powerful emperor, artists were found who, by simple substitution of heads, attributes, or inscriptions, converted without any scruple a Jupiter into God the Father, or a Venus



Fig. 223.—Altar of Castor (a Gallo-Roman Sculpture), discovered in 1711 under the Choir of Notre-Dame, Paris.

into a Virgin. The large cities were not as yet depopulated of the innumerable crowd of statues which adorned them; and it was only in provinces far from the metropolis that the images of the false gods were buried under the fragments of their overthrown temples (Figs. 223 and 224).

In fact, before the art had adopted, or rather created, the system of Christian symbolism, it was absolutely necessary to borrow the elements of its existence from the glorious materials of the past, and even to imitate the works of Pagan art.

In Greece more than elsewhere—and by Greece we include Constantinople—statuary preserved, under Constantine and his earliest successors, a certain degree of power which we might call original. The design still adhered to beautiful forms, and, in the arrangement of subjects, the principles of the ancients were for a long time applied, as if instinctively. Although artists no longer studied nature, they were, at all events, surrounded by excellent models, which guided them with somewhat imperious rule.

We have already seen that, among the barbaric chiefs who invaded the empire of the Cæsars and seated themselves on the Imperial throne of Rome, were some who, at a certain period, professed to be, if not the protectors of the Fine Arts, which had then sunk into torpor, at least the preservers of the Greek and Roman monuments belonging to the noblest epoch of Art. The statues were no longer broken down; the inscriptions and bas-reliefs ceased to be mutilated; the triumphal arches (Fig. 225), the palaces, and the theatres, were respected, or, rather, were left standing. But a kind of deadness had come over the artistic world, and a few sympathetic manifestations of this kind were not sufficient to reanimate its enervated spirit; it was necessary that the period of repose should be fully accomplished—a period which, in the views of Providence, was perhaps a phase of profound contemplation or preparatory development.



Fig. 224.—Altar of Jupiter Ceraunus (Gallo-Roman Sculpture), discovered in 1711, under the Choir of Notre-Dame, Paris.

Nevertheless, although the art which gives life to marble and bronze, the higher style of sculpture, was in a stationary or retrograde state, the lower kind, which we may call domestic, preserved some degree of activity. For instance, it was then the custom for great personages to send as presents diptychs of ivory, on the outer face of which were carved bas-reliefs recalling some memorable event. Monarchs, on their accession, were in the habit of distributing diptychs of this kind to governors of provinces and bishops; and the latter, in order to testify to the good understanding existing between the civil and religious authorities, placed the diptych on the altar. A marriage, a baptism, or any success, gave occasion for the presentation of diptychs. For two centuries artists lived on nothing but this kind of work. It needed events of some very extraordinary character to cause the production of any monument of real sculpture.

In the sixth century the cathedrals of Rome, Tréves, Metz, Lyons,

Rhodez, Arles, Bourges, and the abbeys of St. Médard at Soissons, St. Ouen at Rouen, and St. Martin at Tours, are mentioned as remarkable; and yet the walls of these edifices were nothing but bare stone, without either ornament or sculpture. "To become living stones," says M. J. Duseigneur, "they had to wait for another age. The whole of the ornamentation was exclusively applied to the altar and the baptismal font. The tombs even of great personages present the most primitive simplicity." (Fig. 226.)

Ancient Gaul, in spite of its disasters, still retained, in certain parts of its

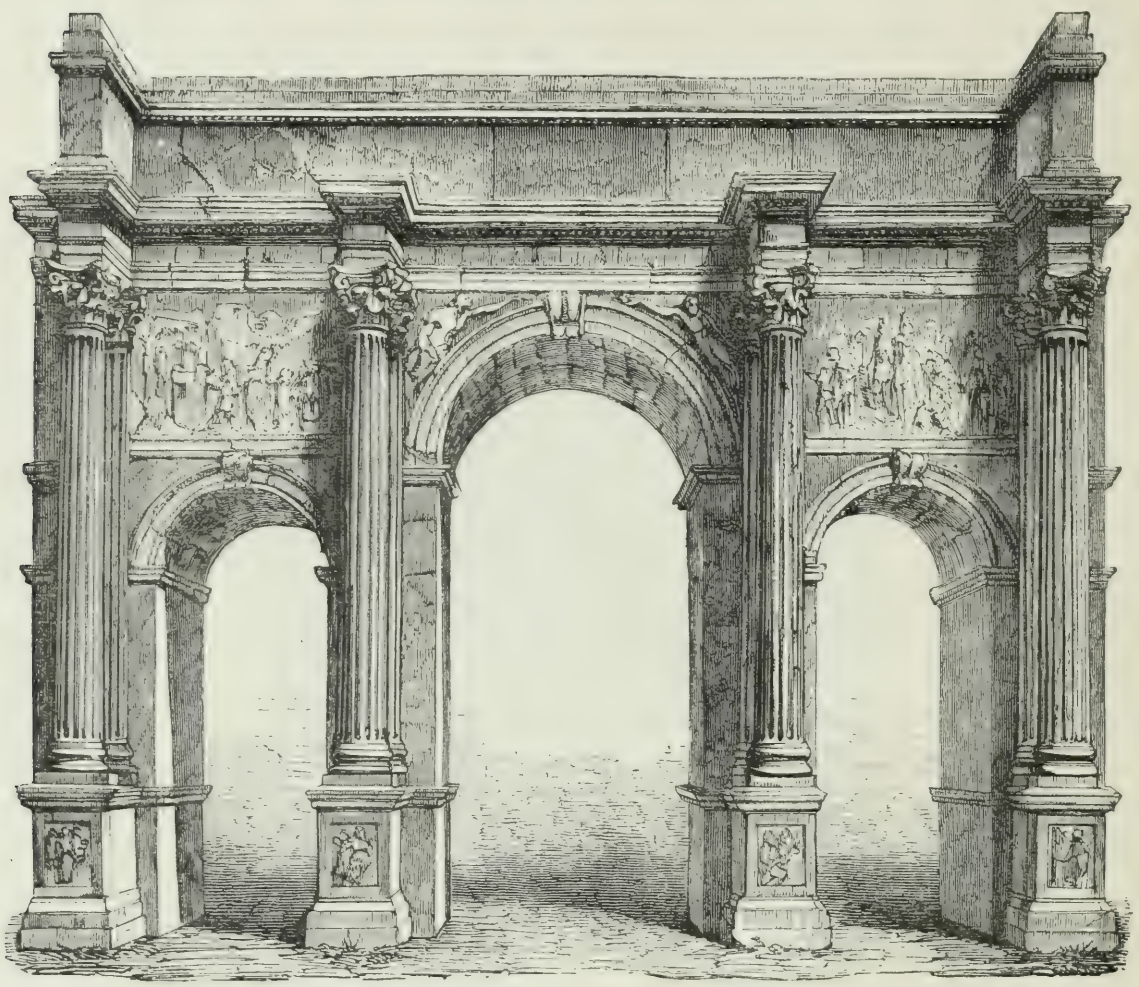


Fig. 225.—Restoration of a Roman Triumphal Arch, with its Bas-reliefs.

territory, men, or rather groups of men, in whose hearts the cultivation of Art still remained a living principle. This was the case in Provence, round the archbishops of Arles; in Austrasia (Metz), near the throne of Brunehaut; in Burgundy, at the court of King Gontran. Most of the works and even the names of these artists are now lost; but history has recorded the movement, which was, as it were, a happy link destined to abbreviate the solution of continuity in the arts condition.

At the time when Greek art, in its degenerate state, had sunk down into a department of mere goldsmith's work, casting over Europe only a pale

and feeble light; when artists, in representing sacred or profane subjects, contented themselves with simple medallions of bronze, gold, or silver, which were generally inserted in a shrine, or suspended on the walls; across the seas Byzantine art was springing into life; an art which blended Hellenic reminiscences with Christian sentiment.

In the eighth century, the epoch of the uprising of the Iconoclasts against images of all kinds, Byzantine sculpture had acquired certain well-marked characteristics: rigidness of outline, meagreness of form, elongation of the proportions, combined with great profuseness of costume: all was the expression of saddened resignation and costly grandeur. The monumental statuary of this age has, however, almost entirely disappeared, and we should be nearly destitute of any accurate record as to the state of art for a period of several centuries, were it not for numerous diptychs which, to some extent, supply this want. Many of these sacred diptychs were exquisitely wrought.

Gori, in his "Trésor des Diptyques," written in Latin and published at Florence in 1759, divides these monuments into four classes: diptychs



Fig. 226.—A Stone Tomb, of one of the first Abbots of St. Germain-des-Prés, Paris.

intended to receive the names of the newly baptised; those wherein were written the names of the benefactors of the Church, sovereigns, and popes; diptychs to the glory of saints and martyrs; and those destined to preserve the memory of the faithful (Fig. 227). Their outward surface generally represented some scene taken from the Evangelists, in which Christ especially was depicted as young and beardless, his head glorified with a nimbus without a cross. The more these representations were condemned, the more they who paid respect to them endeavoured to perpetuate their use. The Greek artists, being unable to find a livelihood in their own country, made their way into Italy in such numbers that the popes Paul I., Adrian I., and Pascal I., erected monasteries to receive them. Owing to the influence of this immigration, Art, which in the West was germinating in an undecided state between a weak style of originality and an awkward mode of imitation, was compelled to assume a character of its own, and this necessarily was the Byzantine character; that is, a manner which was firm,

clear, and, in general, impressed with a certain imposing nobility of style.



Fig. 227.—Diptychs in Carved Ivory of the Eleventh Century. (M. Rigollot's Collection, Amiens.)
The first compartment represents St. Remy, Bishop of Rheims, healing a paralytic; the second, St. Remy healing a sick man by the invocation of the sacrament on the altar; the third, St. Remy, assisted by a holy bishop, baptising King Clovis, in the presence of Queen Clotilda, and receiving from the Holy Spirit the sacred *ampulla*.

This style attained all the more success by its being illustrated by very

eminent artists, whom Charlemagne patronised as fully adequate to the magnificence of his ideas; and also because the richness of ornament which this style combined with its work was likely to render it pleasing to the populace.

The royal palaces of Aix-la-Chapelle, Goddinga, Attiniacum, and Theodonis Villa, and the monasteries of St. Arnulph, Trèves, St. Gall, Salzbourg, and Prüm felt the salutary influence which Charlemagne exercised on all kinds of Art. Prior to 1793, in these various localities precious remains were still to be seen, reaching back to the eighth century; they testified to the fact that, apart from Byzantine influence, and bearing the impress of a simple Christian sentiment, sculpture still clung, owing to Lombard ascendancy, to some of the grand traditions of antiquity.

This union of principles gave rise to a number of works bearing a remarkable character. The foundation of the abbeys of St. Michel (Lorraine), Isle-Barbe (near Lyons), of Ambernay and Romans; the erection of several of the great monasteries in Alsace, Soissonnais, Brittany, Normandy, Provence, Languedoc, and Aquitaine; the construction of the important churches of Metz, Toul, Verdun, Rheims, Autun, &c.; the restorations which took place at the abbeys of Bèze, St. Gall, St. Benignus of Dijon, Remiremont, St. Arnulphe-lès-Metz, and Luxeuil, were of sufficient importance to occupy an immense number of artists, architects, and sculptors, who, like the monk Gundelandus, abbot of Lauresheim, handled the compasses and the mallet with as much authority as the crucifix. Nothing could equal the splendour of some of the monasteries, which were perfect centres of genius and skill, in which all the Fine Arts united were a mutual assistance to one another; directed, perhaps, by a master who was himself inspired by a feeling for elevated production (Fig. 228).

Nevertheless, the smaller examples of sculpture and carving constituted the principal work of the artists of the eighth century. In the execution of any larger objects they were deterred by a dread of the Iconoclasts, who still continued their course of destruction; neither was it much less after the death of Charlemagne, owing to the civil wars and invasions which, in every direction, put a stop to or ruined architectural works. A shrine or an altar might perhaps be saved, but a church-front or doorway could not be protected; and the hereditary hatred with which princes pursued one another did not fail to be wreaked on their effigies. At that time there were neither artists nor monks; every one became a soldier, and the common peril gave some energy to our alarmed ancestors.

When these invasions had almost come to an end in Europe, the very disasters they had caused assisted to some extent the progress both of archi-

tecture and sculpture. In the first place there sprang up a complete order of new buildings, originated by the need that arose for fresh edifices for the purpose of public worship; the Church, having a thousand disasters to repair, built or restored a number of monasteries which assumed a decided character of individuality. The cathedrals of Auxerre, Clermont, Toul, the Church of St. Paul at Verdun, the abbeys of Montier-en-Der and of Gorze, of Munster,



Fig. 228.—Bas-relief in the Abbey-Church of St. Denis; a reproduction of the ancient Statue of Dagobert I., destroyed in the Ninth Century.

Cluny, Celles-sur-Cher, &c., were specially adorned with the sculptural characteristics of this epoch. Crucifixes in high relief were multiplied, the introduction of which into monumental sculpture did not take place before the pontificate of Leo III. In the arched recesses over doorways representations of the good and the bad were placed opposite to one another; the worship of the Virgin was celebrated in all kinds of artistic productions; and, in

short, sculpture was displayed everywhere with extraordinary profusion. Nothing escaped, so to speak, its luxurious growth: *ambons*,* seats, arches, baptismal fonts, columns, cornices, bell-turrets, and gargoyles—everything, in short, testified that sculpture and stone were now in full harmony. Almost all the figures were then represented as clothed in the Roman style, with a short tunic, and the chlamys clasped upon the shoulder; this still continued to be the court costume, and consequently the only one suitable to the representation of the exalted followers of Christianity.

It is worthy of remark that the monuments of this age are generally wanting both in dates and the name of the sculptor. Not more than five or six of the principal artists or directors of artistic works of the period are mentioned by name in any historical records. Among them, however, are Tutilon, a monk of St. Gall, who at once poet, sculptor, and painter, ornamented with his works the churches of Mayence and Metz; Hugues, abbot of Montier-en-Der; Austée, abbot of St. Arnulph, in the diocese of Metz; Morard, who, with the co-operation of King Robert, rebuilt, towards the end of the tenth century, the old church of Saint Germain-des-Prés, at Paris; lastly, Guillaume, abbot of St. Benignus, at Dijon, who took under his direction forty monasteries, and became chief of a school of Art, as well as their head on religious matters. The doorways of the churches of Avallon, Nantua, and Vermanton, executed at this epoch, bear witness to the rigour of an improved taste; and it may be well said that this abbot Guillaume, who for a long series of years directed a number of artists, who also in their turn became chiefs of schools, exercised as powerful an influence on French art as Nicholas of Pisa on Tuscan art in the following century.

But although it embraced within its influence a very extended sphere, the school of Burgundy did not fail to find on the ancient Gallic soil very skilful and industrious rivals. The districts of Messin, Lorraine, Alsace, Champagne, Normandy, and the Ile-de-France, in short all the various centres of the South, possessed numerous artists, each of whom impressed on their works their own special character of individuality.

While all this activity was prevailing in France, Italy had as yet taken so insignificant a part in the revival of Art, that in 976 Peter Orseolo, Doge of Venice, having formed the idea of rebuilding the basilica of St. Mark, was compelled to summon from Constantinople both architects and artists.

A period of check to any progress took place in France, however, just as in all the rest of Europe, when, at the approach of the year 1000, the whole population became possessed with the idea that the end of the world was at hand; but this date once passed, every school of art set vigorously to work,

* A kind of pulpit.

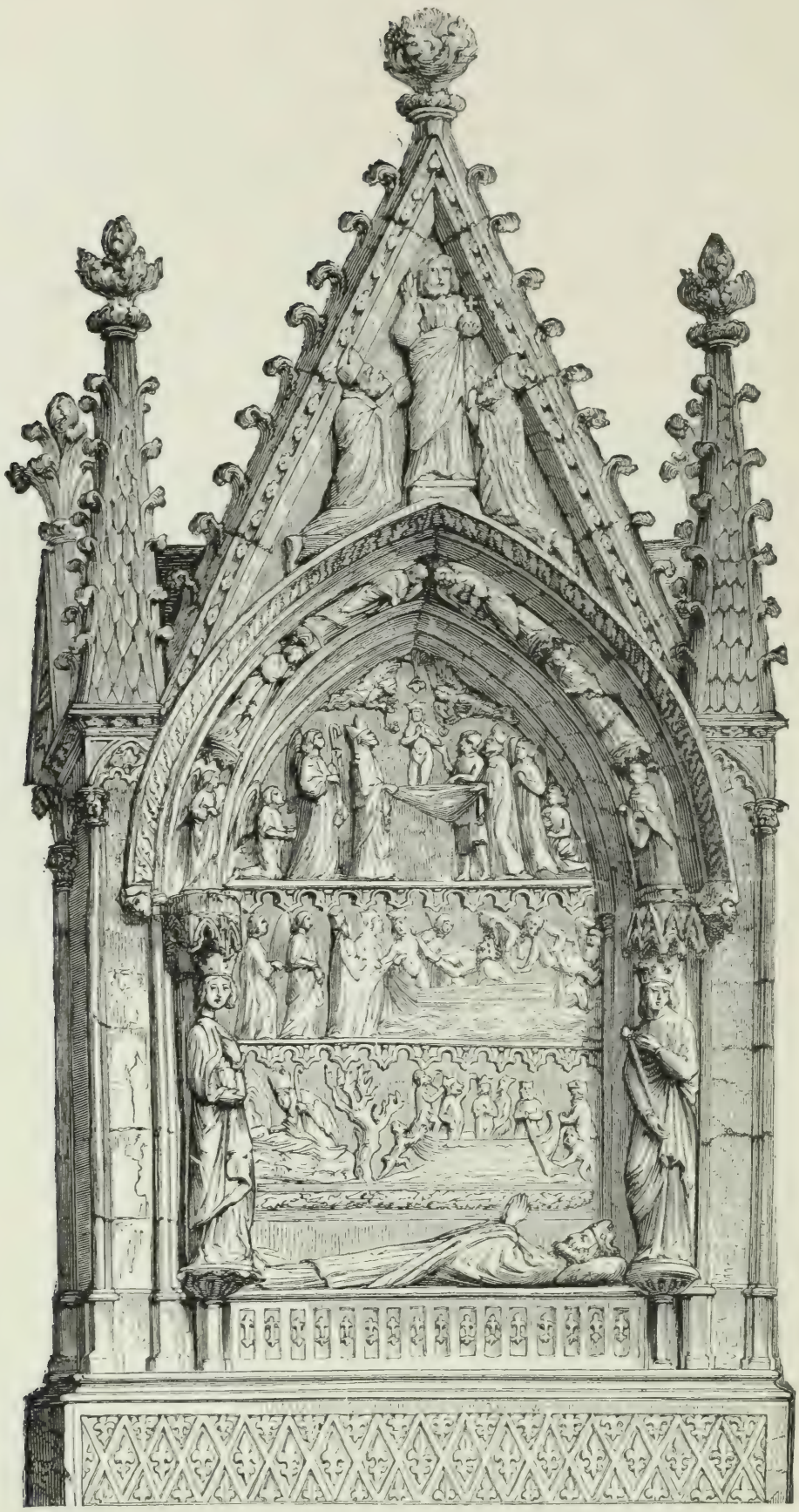


Fig. 229.—Tomb of Dagobert, executed by order of St. Louis, in the Abbey-Church of St. Denis. It represents the King carried away by Demons, after his death, towards the Infernal Bark, from which he is rescued by Angels and the Fathers of the Church. (Thirteenth Century.)

and the most remarkable monuments of Romanesque architecture sprang up throughout Europe in every direction.

Then it was that the artists of Burgundy built and ornamented, among other churches and monasteries, the Abbey of Cluny, the apse of which consisted of a bold cupola, supported by six columns thirty-six feet in height, of Cipolin and Pentelican marbles, with capitals, cornices, and friezes, carved painted, and decorated with bronze. In Lorraine they worked at the cathedrals of Toul and Verdun, and the Abbey of St. Viton. In the diocese of Metz Gontran and Adélard, celebrated abbots of St. Trudon, covered Hasbaye with new buildings. "Adélard," says a chronicler, "superintended the construction of fourteen churches, and his outlay was so great that the imperial treasury would scarcely have sufficed for it." In Alsace, the cathedral at Strasburg and the two churches of Colmar and Schelestadt simultaneously arose, and in Switzerland the Cathedral of Basle. These magnificent edifices are still standing to show the vigour and majestic simplicity with which the art of sculpture was then able to embody its ideas; and, by lending its aid to architecture, to manifest, so to speak, the faith which actuated it. It was in this century that Fulbert, Bishop of Chartres, who was doubtless a sculptor also, superintended the restoration of his church, the splendour of which is still open to the admiration of all. Art, too, did not less distinguish herself in the decoration of certain additions made at that time to edifices already existing. The doorways of the churches of Laon, Châteaudun, and St. Ayoult-de-Provins, grand works of the earliest years of the twelfth century, yield the palm only to the splendid external ornamentation of the Abbey of St. Denis, executed between the years 1137 and 1180. The Abbot Suger, who was himself an eminent artist, does not name any of the sculptors to whose care this important task was committed. We are equally ignorant as to the sculptors of the statues of Dagobert and of Queen Nanthilde, his wife; and also as to the artists of a large golden crucifix, the foot of which was enriched with bas-reliefs, and the figure of Christ, that presented, says Suger, "an expression really divine." The names of the sculptors of the cathedral church of Paris are likewise concealed from our admiration. One might suppose that a body of artists fired with the same inspiration, and with a common sentiment both in thought and action, had there assembled to design their works; some sculpturing in marble the sarcophagus of Philip of France; some peopling the rood-loft and the apse with tall figures and a long gallery of Biblical subjects; others decorating the façade and exterior with statues, all of every diversified character, but yet all appearing to unite in the expression of the same feelings and the same faith (Fig. 230).

In the twelfth century, the Burgundian artists continued their marvellous work. The tomb of Hugues, abbot of Cluny; the doorway of the monastery

of St. Jean, that of the Church of St. Lazare at Autun; the nave and the west front of Semur-en-Auxois, are all of this school, and of this epoch.



Fig. 230.—External Bas-relief of Notre-Dame, in Paris, representing Citizens relieving Poor Scholars. (The work of Jean de Chelles. Date 1257.)

The school of Champagne raised to the memory of Count Henry I., in the Church of St. Etienne, at Troyes, a tomb surrounded with forty-four columns of gilded bronze, surmounted by a slab of silver on which were

placed, in a recumbent position, the statues of the Count and of one of his sons; bas-reliefs, in bronze and silver, representing the Holy Family, the celestial court, angels, and prophets, surrounded this monument. The tomb of Count Henry was a triumph of sculpture in metal, and, at that time, surpassed all other tombs in France, just as the Cathedral of Rheims was destined, ere long, to excel all others.

In Normandy we find the same enthusiasm, the same zeal, the same skill in Art; and there, at least, we learn the names of some of the artists: Otho, the builder of the Cathedral of Séez; Garnier, of Fécamp; Anquetil, of Petit-Ville, &c. The masons and sculptors, too, formed at this epoch a numerous and powerful corporation.

In the South, Asquilinus, abbot of Moissac, near Cahors, ornamented with fine statues the cloister and front of his church, and affixed to the sides of the apse a Crucifixion so skilfully carved, that it was believed to have emanated from some divine hand ("ut non humano, sed divino artificio facta"). In Auvergne, Provence, and Languedoc, many other important works of sculpture were executed. But the chief masterpiece of all, which combines the different styles of the southern schools, is the famous Church of St. Trophimus of Arles, the front of which, where the breadth and grace of the Greek style is allied with the purest Christian simplicity, carries back the imagination to the brightest epochs of art.

Towards the end of the eleventh and the commencement of the twelfth century, the sculptors' studios of Lorraine were in full activity. Several magnificent churches having been destroyed by fire, particularly that of Verdun, the whole population assisted, either with money or labour, in the restoration of these edifices. It was a perfect artistic crusade, in which several bishops and abbots, who were clever artists as well as spiritual chiefs, took the lead in the movement.

In Alsace, art asserted its position in the magnificent Cathedral of Strasbourg, a kind of challenge thrown out to the artists on the other side of the Rhine, who were unable, even at Cologne, to carry an edifice to such an enormous height, or to adorn it with such a diversified multitude of statues. Although belonging more especially to the thirteenth century, it may be taken as the starting-point of the prodigious works executed by an association of freemasons, who have marked with their heiroglyphic signatures the stones of this edifice, as of all others executed by them in the valley of the Rhine, from Dusseldorf to the Alps.

We are, however, led to believe that Germany also did not fail to be subject to the influence of this artistic school, for among contemporary monuments are several in a style which manifestly testifies to the effects of the neighbouring country of Alsace.

Flemish art of that time is exemplified by the Church of St. Gudule at Brussels, the style of which is especially rich with decorations borrowed from churches on the banks of the Rhine, the Moselle, the Sarre, and the Upper Meuse.

If we include in one comprehensive glance French, German, and Flemish sculptural works, we shall recognise in all, notwithstanding the predominance of any particular school, one original and special type. The characteristics of this are elongated faces with a calm, contemplative, and penitent expression; stiffness of attitude, and a kind of ecstatic immobility, rather than any glow of animation; draperies with small narrow folds, and close-fitting as if wetted; pearled fringes or ribbons, set off with gems (Fig. 231). We see statues of lofty proportions reared up; representations of various personages are multiplied on the tombs; Greek art is disappearing and its learned theories are giving way before Christian sentiment; thought is obtaining the mastery over mere form; symbolism makes its appearance and becomes a science.



Fig. 231.—Statue said to be of Clovis I., formerly in the porch of St. Germain-des-Prés, Paris.
(Twelfth Century.)

But let us turn our eyes towards Italy. Venice had scarcely raised her lofty dome ere Pisa aspired to have one also. Many a Tuscan ship, launched upon the sea for conquests of a new kind, brought from Greece an infinity of monuments, statues, bas-reliefs, capitals, friezes, and various fragments; and the Tuscan people, the best organised race in Europe for fully appreciating all the beauty of form, were called upon to draw their inspiration from the relics of ancient works of Art. The enthusiasm became general. In 1016, Buschetto, regarded as the first architect of his time, undertook the building of the Cathedral of Pisa, where ancient fragments are still conspicuous amid the works of more modern creation: a kind of holographic testament the benefit of which the followers of the art of Phidias have thus handed down to posterity. The pupils of Buschetto, accepting the impulse of his masterly hand and reproducing his ideas, soon spread all over the peninsula, and the cathedrals of Amalfi, Pistoia, Siena, and Lucca arose, the Byzantine character of which differed from the Lombard style presented by the Cathedral of Milan. One

might almost have fancied that the bosom of the earth brought forth statues

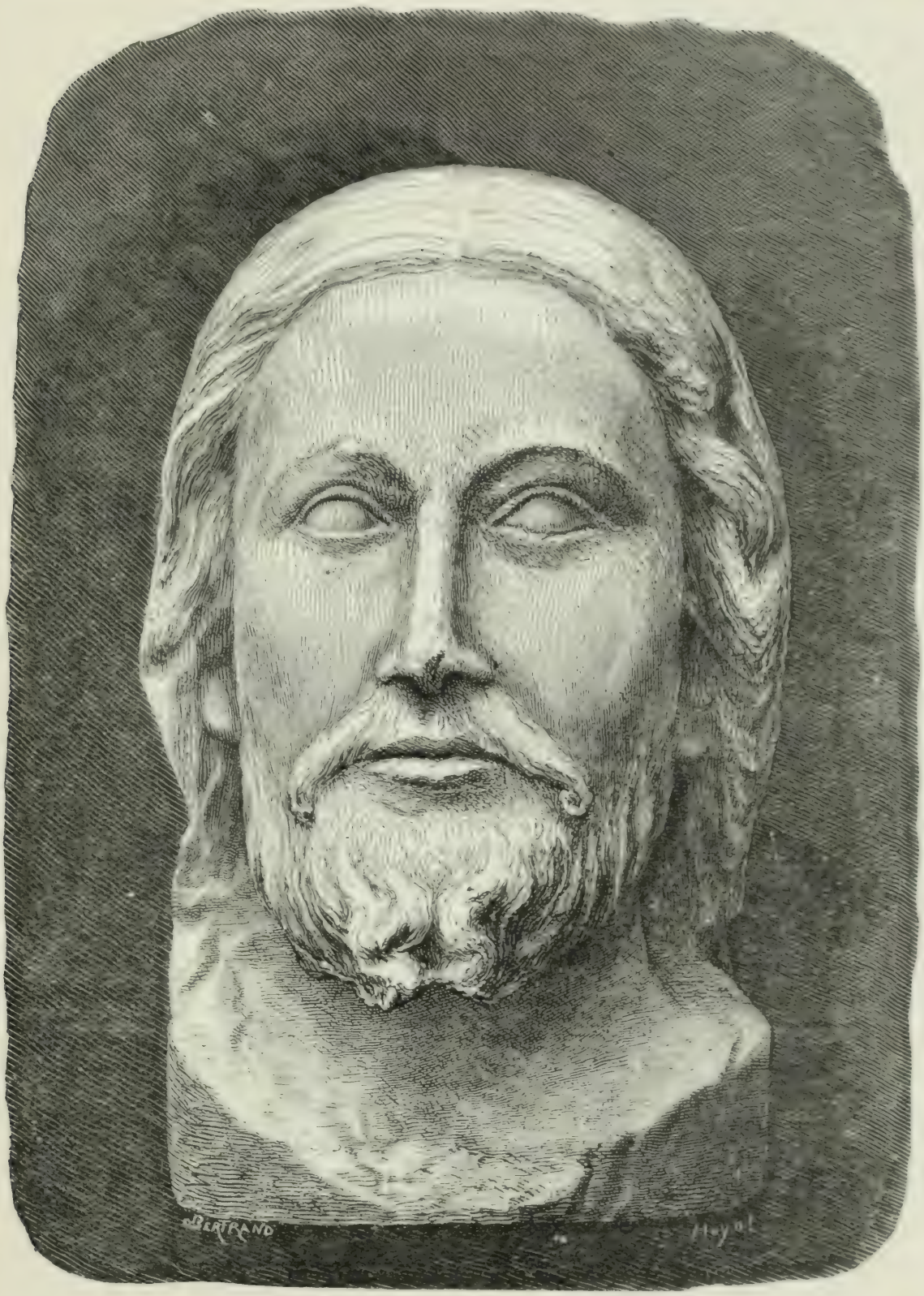


Fig. 232.—"The *Beau Dieu d'Amiens;*" a Statue of Christ in the Front of the Cathedral of Amiens. (Thirteenth Century.)

which, as if by enchantment, peopled every pedestal; and that from heaven descended the ray which animated them with their sublime expression. The

art of casting in bronze, hitherto almost unknown in Italy, became naturalised there as much as the art of carving on stone.

While in the West the Arts were making such a spring, in the East they had relapsed into the lowest stage of debasement, at the period when Byzantium was simultaneously threatened by the Bulgarians and the Crusaders; although for a time they had appeared to revive, owing to the zeal of Basil the Macedonian, Constantine VIII., and some of their successors. Eastern sculpture disappeared when the Latins sacked the ancient capital of the first Christian emperor (1204).

At the approach of the thirteenth century, which was destined to be the great age of Christian architecture and sculpture, artists no longer looked, as they had hitherto done, towards Byzantium; they depended on themselves; and although some hesitation might still be felt, they found all round them models they could imitate, traditions they could follow, and masters to whom they could listen. Christian art had now an independent existence, and the various schools asserted their styles in a way which became every day more clear, more powerful, and more original.

"The style of the head of Christ at Amiens" (Fig. 232), says M. Viollet-le-Duc, writing on this subject, "fully deserves the attention of sculptors. This carving is treated in the same way as the Greek heads of the school of Ægina. There is the same simplicity of model, the same purity of outline, the same style of execution, at once broad and delicate. It well represents the features of Christ as a man: a blending of sweetness with firmness, a gravity devoid of sadness."

This is not the place to assert any minute comparisons between different manners and styles; even the bare enumeration of the many monuments to which this fervent age gave birth might prove wearisome. We call it a "fervent age," and fully are we justified, for, at a time when a whole world of artist-sculptors of ornaments and figures were devoting themselves to the most delicate and marvellous works of sculpture (Fig. 233), none seemed desirous of displaying his own personal distinction. We find, for instance, numerous sculptors setting aside all claim to individual merit, and carrying this self-denial so far that, instead of their own names, they inscribed that of the Virgin Mary on the carvings of the churches which they had enriched with their finest works: "Hoc panthema pia cælaverat ipsa Maria."

In Germany, Christian art became specially enthroned in Saxony; and Dresden, which has been justly styled the German Athens, can date back her architecto-sculptural adornments to the tenth century. On the banks of the Rhine, at Cologne, Coblentz, and Mayence, we find again the school of St. Gall, which, having been planted in 971, under the auspices of

Notker, Bishop of Laodicea, left its stamp, during a period of two centuries, in a series of remarkable works.

England, as early as the seventh century, had called to her aid some of

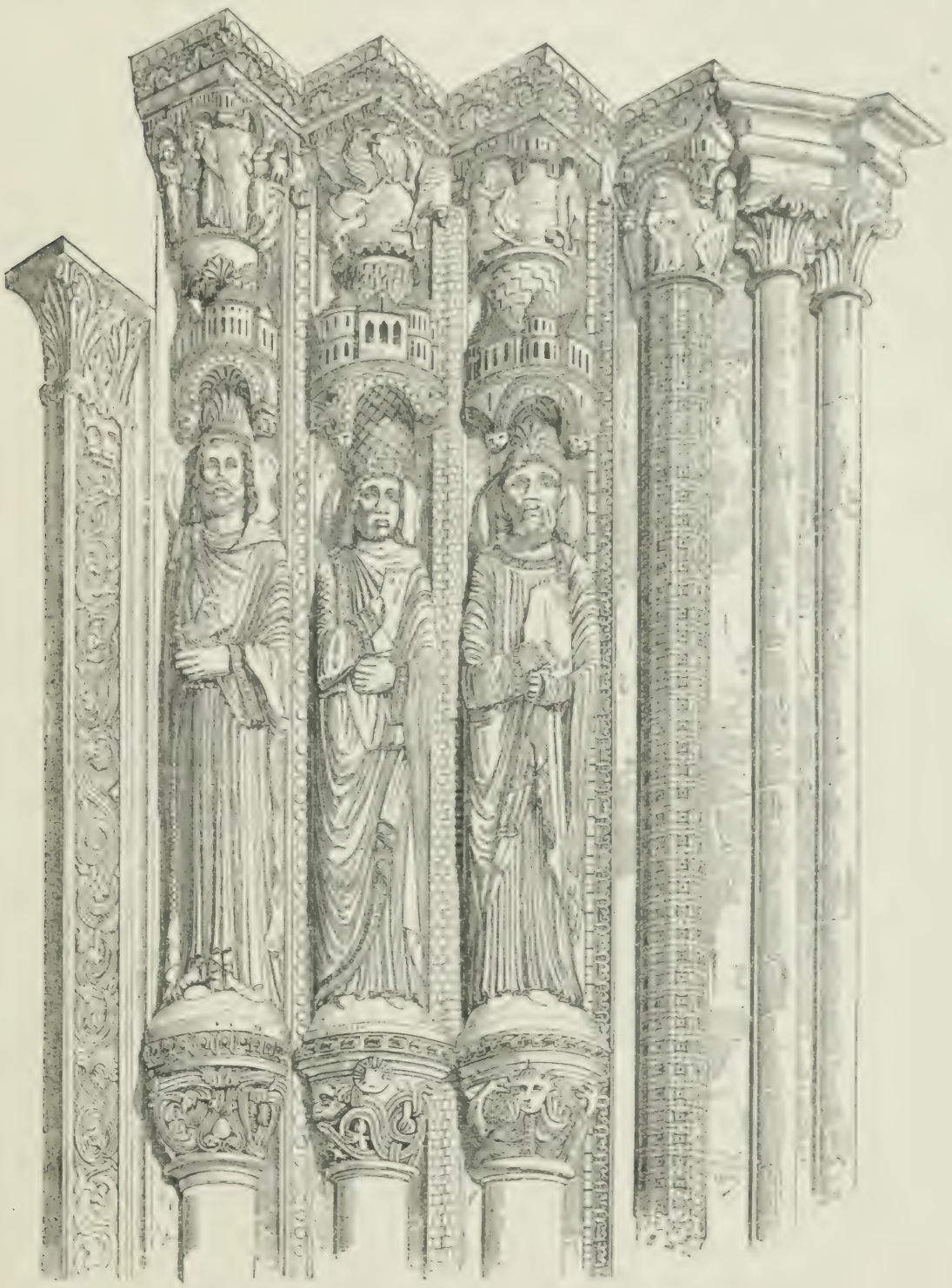


Fig. 233.—Statues in the South Porch of Bourges Cathedral. (Twelfth Century.)

the French "masters in stone" and best workmen, and she subsequently continued to do so for the building and ornamentation of her finest religious edifices. William of Sens, a very skilful artist (*artifix subtilissimus*), proceeded, in 1176, to rebuild Canterbury Cathedral. Norman and French

artists also restored the abbeys of Croyland and Wearmouth, and York Cathedral, already enriched with Byzantine and French sculpture.

Spain and Portugal, the soil of which had long been the theatre of an inveterate conflict between two races embracing two irreconcilable religions, were destined to inherit from these very struggles the creation of a singularly characteristic style of art. In adopting the Byzantine style, the Moors had deprived it of its character of simple earnestness, and made it to harmonise with the tendencies of their refined sensualism. Even when Christian art was able to exercise an undivided rule, it could not fail to be influenced by the buildings erected by the Moors; and the fact that this alliance of architectural and sculptural styles succeeded in producing masterpieces is well attested by the cathedrals of Cuenca, Vittoria, and some portions of those of Seville, Barcelona, and Lugo in Galicia.

Sicily and the kingdom of Naples followed the movement made in other countries of Europe; but here, again, was felt the influence of various foreign importations. Some of them were of Greek origin, coming from Byzantium; some northern, from Normandy, and perhaps also from Germany; most, however, from Spain, and especially from the important school of Aragon.

"Niccolo Pisano," says Emeric David, "was born towards the end of the twelfth century, in a town then peopled with Greek masters and the pupils of those masters, and full of Greek monuments of every age; a town which might be called altogether Greek. He had the good sense to disdain the productions of his own time and to devote himself to the more elevated contemplation of the *chefs-d'œuvre* of ancient Greece. This proof of undoubted discernment and a high degree of taste on his part, could not but lead to very marked progress. But a premature study of the antique is not so sure a guide to the desired end as the contemplation of nature, to which Guido of Siena, his contemporary, and a little later Cimabue and Giotto, taught perhaps by his errors, assiduously applied themselves." There can, however, be no doubt that the first development of Christian sculpture in Italy must unquestionably be referred to Nicolas of Pisa. He had, nevertheless, some rivals who were well worthy of competing with him. Among these were Fuccio, sculptor of the magnificent tomb of the Queen of Cyprus, in the Church of San Francesco at Florence; and also Margaritone of Arezzo, who in 1216 carved his name over the doorway of the church of that town. Giovanni of Pisa, son of Nicolas, who sculptured many beautiful works at Arezzo, Pistoia, and Florence, and even surpassed himself in the Campo Santo at Pisa, perhaps the most remarkable monument in Christian Europe, has been placed by some far below his father in rank as a sculptor, on account of an accusation made against him of having abandoned the Greek

style. But this renunciation was, in fact, a real trait of genius, and actually constitutes his glory; for, by neglecting form to some extent, he was enabled to carry religious idealism and power of expression to its very highest limits. We must, therefore, consider Giovanni and Margaritone, pupils of Nicolas; Andrea Ugolino, pupil of Giovanni; Agnolo and Agostino of Siena; and the celebrated Giotto, who was at once architect, sculptor, and painter, as real regenerators of the art. Indeed, we might call these great artists the creators of Christian sculpture in Italy—that art in which simultaneously shone forth seriousness of composition, grace and ease of attitude, simplicity of imitation, elevation of sentiment; in short, all the great harmonies of a style which seemed to breathe forth a hymn of love and faith.

Thanks to the studios of Agnolo and Agostino, Siena, a small town which calls to mind the ancient Sicyon, so weak in a political point of view and yet so learned and polished, was for some time the rival of Pisa, up to the period when Florence absorbed the artistic splendour of the two cities. Florence, as the home of the Arts, became the centre of radiation whence artists took their flight over the whole of Italy, and from Italy spread among all the nations of Europe.

Towards the end of the thirteenth century, the churches of Florence, on which the fraternities combined their efforts, and some of the civil buildings of this rich and flourishing city, were filled with statues. The foundation of the municipal palace in 1282, and that of the cathedral in 1298, made these two wonderful edifices real museums of sculpture, in which, among the works of Eastern artists, those of Giovanni of Arezzo and Giotto are distinguished. Agostino and Agnolo of Pisa executed at that time some magnificent examples at Santa Maria in Orvieto, San Francesco in Bologna, and in the subterranean Church of Assisi, &c. Lastly, Andrea Pisano, a contemporary of Giotto, as he died only in 1345, extracted from antiquity all that Christian sculpture could borrow from it; that is, he combined sublimity both of form and expression. At Pisa, the chancel of Santa Maria a Ponte; at Florence, the Campanile and the high-altar of Santa Maria de' Fiori, and a door of San Giovanni; in the Cathedral of Pistoia, the tomb of Cino, are all of them so many masterpieces; above which, however, the old Pisan master proudly classed the works of his son Nino. This young artist, who carved the monument of the Scaligers at Verona, became, in fact, the worthy follower of the school which recognised Andrea as its chief. Jacopo della Quercia and Niccolo Aretino enriched also with magnificent works the towns of Siena, Lucca, Bologna, Arezzo, and Milan, as well as Florence. But when, in 1424, the tomb closed over Jacopo della Quercia, the lofty destinies of the art seemed to come to a termination, and soon rapidly declined. In Venice, at the death of Filippo Calendario, which

occurred in 1355, Italian sculpture had already lost much of its nobility and vigour of style.

Italian sculpture (Fig. 234), as remarked by Emeric David, raised itself to the height of the sublime by merely striving after a simple and exact imitation of nature. It was by the same course of action that French sculpture always emulated its Transalpine rival; but, in order to attain the same end, the imitation followed a different path. In Italy, Art raised itself to the ideal by an attentive study of Greek forms; while on this side of the Alps, when sentiment required it, form was, if not sacrificed, at least

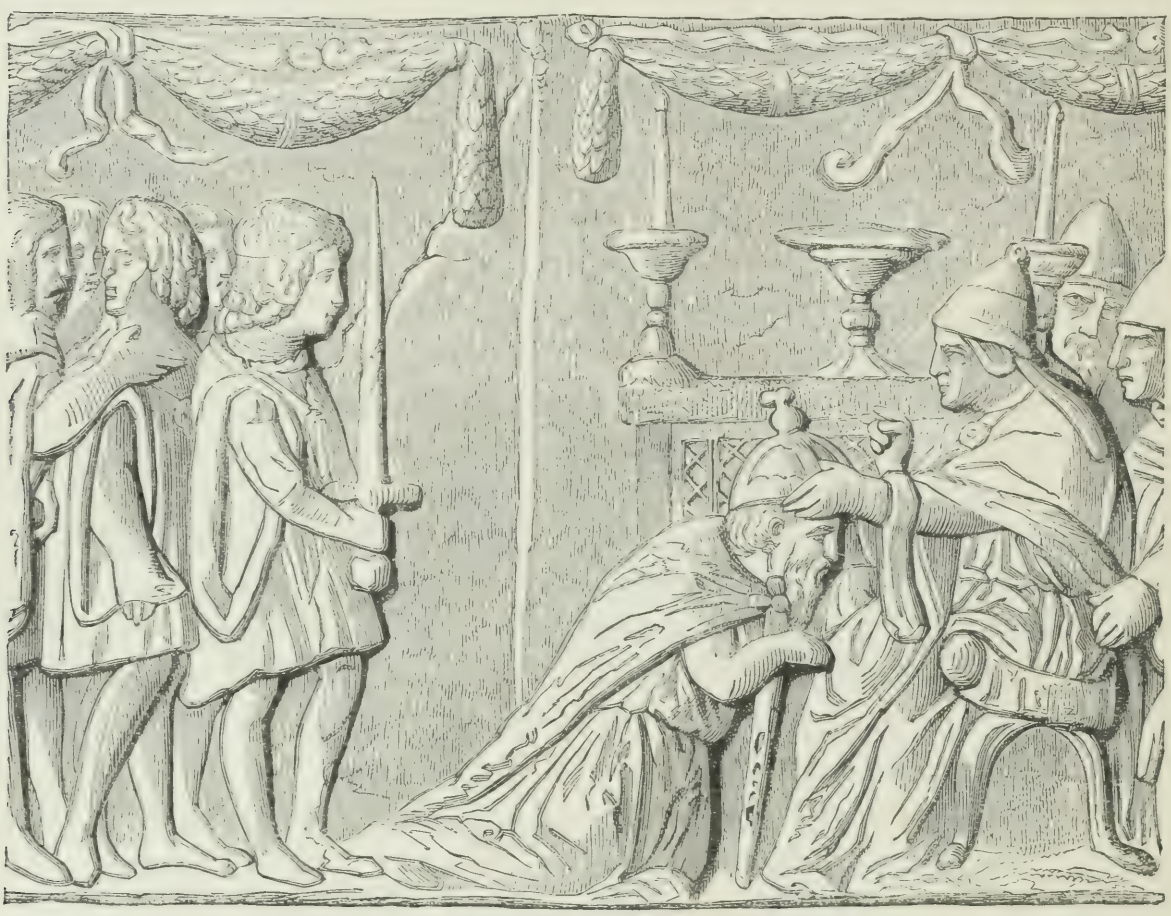


Fig. 234.—Bas-relief on one of the Bronze Gates of St. Peter's at Rome, representing the Coronation of the Emperor Sigismund by Pope Eugenius IV., in 1433. (Sculpture of the Fifteenth Century.)

neglected. France showed more respect for the orthodoxy of Christian thought; she did not introduce into the sanctuary of the Holy of Holies any of those profane and material ideas that might have been inspired by the marbles of Greece. In spite of the pointed architecture which everywhere prevailed, French sculpture, replete with a certain eloquent unction, preserved for a considerable period the Byzantine style in the appearance of the head and in the delicacy of draperies; without, however, altogether renouncing its individuality of character, and without ceasing to look for models peculiar to its own soil.

Unfortunately for the personal glory of the French sculptors, the historians of the time have scarcely taken the trouble to record their names. In order to discover but a few of them, learned men of modern days have been compelled to undertake laborious researches: while many, and those the most remarkable—worthy, no doubt, to be compared with the greatest Italian artists—are and must remain ever unknown (Fig. 235). The Italians were more fortunate; to them Vasari, their rival and contemporary, has raised a lasting monument. In French art, the list of the sculptors of so many masterpieces must come to a close when we have mentioned Enguerrand, who, from 1201 to 1212, commenced the Cathedral and the Church "du Bue,"



Fig. 235.—Statuette of St. Avit, in the Church of Notre-Dame de Corbeil, demolished in 1820. (Eleventh Century.)

at Rouen, and had for his successor Gautier de Meulan; Robert de Coucy, chief of the body of artists who built the Cathedral of Rheims; Hugues Libergier, who rebuilt the ancient basilica of St. Jovin; Robert de Luzarches, the founder, in 1220, of the Cathedral of Amiens, continued after his death by Thomas de Cormont and his son Regnault; Jean, Abbot of St. Germain-des-Prés, who in 1212 undertook the Church of St. Cosme, Paris; that of St. Julien le Pauvre being restored and adorned with sculpture at the same date, from the designs of the abbot and the "brethren" of Longpont (Fig. 236); Jean des Champs, who in 1248 worked at the ancient Cathedral of Clermont;

lastly, the two Jeans de Montereau, who at one time as military architects, at another as sculptors of sacred subjects, were at the command of St. Louis, and produced some extraordinary works both of construction and sculpture.

Alsace manifested no less enthusiasm than France for the new architectural system, and sculpture was also subject to a similar development. From Basle to Mayence, the slopes of the Vosges and the long valley of the Rhine became full of edifices enriched with sculpture and peopled with statues. Erwin of Steinbach (who died in 1318), assisted by Sabina, his daughter, and William of Marbourg, were the most renowned masters in these parts.

The extraordinary advance that French sculpture made in this age was



Fig. 236.—Bas-relief formerly over the Doorway of St. Julien le Pauvre, Paris, representing St. Julien and St. Basilissa, his wife, conveying in their boat Jesus Christ under the figure of a Leper. (Thirteenth Century.)

assisted—if not as regards the higher style of work, which could do without this help, at least in respect to the minor details of the art—by the institution of the fraternities of the *Conception Notre-Dame*. In many towns the sculptors of images and the painters, the moulders, the *bahutiers*, or carvers in wood, horn, and ivory (Fig. 237), were all united under the same banner. In Germany and Belgium also existed *hanses*, or guilds, which were in direct communication with those of Alsace, and accepted as guides French artists of known ability; as, for instance, Volbert and Gérard, architect-sculptors, who were simultaneously engaged in the construction of the Church of the Holy Apostles, Cologne.

With respect to the works commenced or finished in the fourteenth century, the only difficulty is to make a choice among these wonderful

monuments of art, which, however, must be looked upon as the last manifestations of Christian art, properly so-called. We must, however, point out the polychrome sculptures of Chartres, of St. Remy, Rheims; St. Martin, Laon; St. Yved, Braisne; St. Jean des Vignes, Soissons; of the Chartreuse, Dijon. In this ducal city we find, in 1357, Guy le Maçon, a celebrated sculptor; at Bourges, about the same date, Aguillon, of Drouces; at Montpellier, between 1331 and 1360, the two Alamans, John and Henry; at

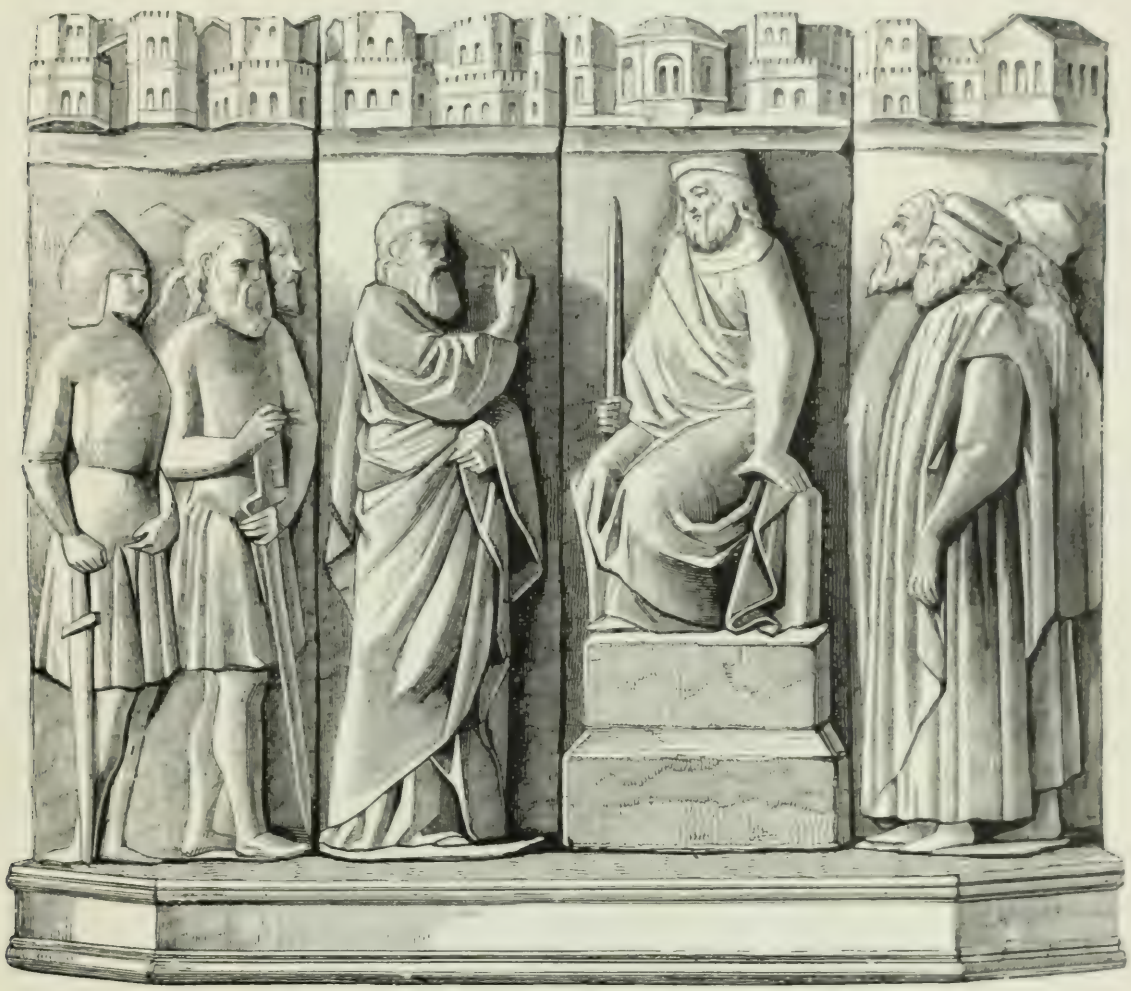


Fig. 237.—Fragment of a small Reredos, in carved Bone (Fourteenth Century).
Presented by Jean, Duc de Berry, Brother of Charles V., to the church of the ancient Abbey of Poissy.
(Louvre.)

Troyes, Denisot and Drouin of Mantes, &c. Beyond France, Matthias of Arras, in 1343, laid the foundations of the Cathedral of Prague, which was to be continued and finished by another French artist, Pierre of Boulogne. Arrested as our attention must be by the statues and bas-reliefs which were multiplied under the porches, in the niches (Fig. 238), and on all the tombs, we can cast but a very cursory glance on the immense number of wood-carvings, figures in ivory, and movable pieces of sculpture, executed by artists who may be divided into two very distinct classes, the Norman and

the Rhenish; those of other schools appear to have been nothing but imitators of these.

In 1400 the *Maître* Pierre Pérat, architect of three cathedrals, who was at once both civil engineer and sculptor, and one of the greatest masters of whom France can boast, died at Metz, where he was interred with all the honours due to his talents. Just at the same time a memorable competi-



Fig. 238.—"Le Bon Dieu," in the old Chapel of the Charnier des Innocents, Paris. (Fifteenth Century.)

tion, was opened at Florence. The object in view was to finish the doors of the Baptistery of San Giovanni. The formal announcement of the competition, which was made all over Italy, did not fail to call forth the most skilful artists. Seven of these were selected, on account of their renown, to furnish designs: they consisted of three Florentines—Filippo Brunelleschi,

Donatello, and the goldsmith Lorenzo Ghiberti; Jacopo della Quercia of Siena; Nicolo Lamberti d'Arezzo; Francesco da Valdambrina; and Simone da Colle, called *de' Bronzi.* To each of these competitors the republic granted one year's salary, on condition that, at the end of the period, each of them should furnish a panel of wrought bronze of the same size as those



Fig. 239.—"St. Eloi, Patron of Goldsmiths and Farriers." A Sculpture of the Fifteenth Century, in the Church of Notre-Dame d'Armançon, at Semur, Burgundy.

of which the doors of St. John were to be composed. On the day fixed for the examination of the works, the most celebrated artists of Italy were summoned. Thirty-four judges were selected, and before this tribunal the seven models were exhibited, in the presence of the magistracy and the public. After the judges had audibly discussed the respective merits of the works, those of Ghiberti, Brunelleschi, and Donatello were preferred. But

to whom of the three was the palm to be awarded? They hesitated. Then Brunelleschi and Donatello retired apart and exchanged a few words, after which one of them thus addressed the assembly:—"Magistrates and citizens, we declare to you that in our own judgment Ghiberti has surpassed us. Award him the preference, for our country will thus acquire the greater glory. It is less discredit to us to make known our opinion than to keep silence."

These doors, at which Ghiberti worked for forty years, with the assistance of his father, his sons, and his pupils, are perhaps the finest work we have in sculptured metal.

At the date when Lorenzo Ghiberti, Donatello, Brunelleschi, and their pupils were the representatives of Florentine sculpture, the French school also produced its masters and its works of Art. Nicholas Flamel, the famous writer (*écrivain*) of the parish of St. Jacques la Boucherie, ornamented the churches and mortuary chapels of Paris with mystical and alchemical (*alchimiques*) sculptures, of which he was the designer if not the actual artist. Thury executed the tombs of Charles VI. and Isabelle of Bavaria; Claux Sluter, author of the "Ruits de Moïse," at Dijon, assisted by James de la Barre, multiplied the works of monumental sculpture in Burgundy (Fig. 239). In Alsace, under the impulse of King René, himself an artist, the sculptor's art produced examples bearing the impress of a remarkable individuality. In the district of Metz, Henry de Ranconval, his son Jehan, and Clausse, were distinguished. In Touraine, Michael Columb executed the tomb of Francis II., Duke of Brittany; Jehan Juste, that of the children of Charles VIII., as introductory to the mausoleum of Louis XII., which he executed between 1518 and 1530, for the basilica of St. Denis; a German, Conrad of Cologne, assisted by Laurent Wrine, master of the ordnance to the king, cast in metal the effigy for the tomb of Louis XI. In Champagne appeared Jean de Vitry, sculptor of the stalls of the Church of St. Claude (Jura); in Berry, Jacquet Gendre, *master-mason* and *figure-maker* for the Hôtel de Ville, Bourges, &c.

At the end of the same century, Peter Brucy, of Brussels, exercised his art at Toulouse; the inspiration of the Alsacian artists was developed in the magnificent sculpture of Thann, Kaisersberg, and Dusenbach; while Germany, achieving but a late independence, sheltered the faults of her early genius under the illustrious names of Lucas Moser, Peter Vischer, Schühlein, Michel Wohlgemuth, Albert Durer (Fig. 240), &c.

In sculptural works, as in every other branch of art, historical sentiment and faith seemed to die out with the fifteenth century. Mediæval art was subjected to protest; the desire seemed to be to re-create beauty of form by going back to the antique; but the emphatically Christian individuality

was no longer reached, and this pretended *renaissance*, in which even earnest minds were induced to gratify themselves, only served to exhibit the feeble efforts of an epoch that sought to reproduce the glories of a vanished age. In the time of Charles VIII. and Louis XII., Lombardo-Venetian art, the



Fig. 240.—"St. John the Baptist preaching in the Desert." Bas-relief in Carved Wood by Albert Durer. (Brunswick Gallery.)

affected and ingenious imitation of the Greek style, was introduced into France; it suited the common people, and pleased mediocre intellect. The sculptors who came at that period to seek their fortunes at the court of the French kings worked exclusively for the aristocracy, and vied with one

another in adorning, with an ardent infatuation for Italian art, the royal and aristocratic palaces which were being built or restored in every direction, such as the Châteaux of Amboise and Gaillon. But they failed to do any injury to French artists, who still remained charged with the sacred sculptures; and their style became but slightly, if at all, influenced by this foreign immigration. Even Benvenuto Cellini himself failed to exercise much effect on the vigorous schools of Tours, Troyes, Metz, Dijon, and Angers; his reputation and his works never passed, so to speak, beyond the limits of the court of France, and the brilliant traces they left behind them were confined to the school of Fontainebleau. Ere long, some zealous artists from all the principal centres of the French schools left their country and



Fig. 241.—Bas-relief of the Hôtel de Bourgtheroulde, Rouen, representing a Scene in the Interview between Francis I. and Henry VIII., on the Field of the Cloth of Gold.

betook themselves to Italy; among these were Bachelier of Languedoc, Simon and Ligier Richier of Lorraine, Valentine Bousch of Alsace, and Jacques of Angoulême, who had the honour of a victory over his master, Michel-Angelo, in a competition of statuary (many of the former artist's works now exist in the Vatican); Jean de Boulogne, and several others. Some of them, after they had become celebrated on the other side of the Alps, returned to their native country, bringing back to it their own native genius matured by the lessons of the Italians. There was, therefore, always a French school that preserved its individual characteristics, its generic good qualities and defects, which are so well represented in the sculptures of the Hôtel du Bourgtheroulde, Rouen (Fig. 241).

Michel-Angelo was born on the 6th of March, 1475, and died on the 17th of February, 1564, without having shown any signs of decadence; greater, possibly, by his genius than by his works, he is the personification of the Renaissance. It would be, perhaps, irreverent to say that this age was an age of decay; we might fear to desecrate the tomb of Buonarotti if we laid to his charge that his grand boldness led ordinary talents astray; and it is not a pleasant subject of thought that, influenced by two currents of ideas—one coming from Italy, the other from Germany—the art of the century operated to its own suicide. When the very soil itself seemed to be shaken, and the Christian pedestal which had formed both its grandeur and power overturned, what could be done in the way of opposition to the downfall of Art by Jean Goujon, Jean Cousin (Fig. 242), Germain Pilon, François



Fig. 242.—Statue in Alabaster of Philip Chabot, Admiral of France, by Jean Cousin. Formerly in the Church of the Célestins, Paris, now in the Museum of the Louvre.

Marchand, Pierre Bontemps, those stars of French sculpture in the sixteenth century?

A final manifestation of the old religious feeling was, however, apparent in the tombs of the Church of Brou, designed by Jean Perréal, the great painter of Lyons, executed by Conrad Meyt, and carved by Gourat and Michael Columb; also in the mausoleum of Francis II., carved by Columb and his family; in the sepulchre of St. Michel (Fig. 243), by Richier; of the *Saints de Solesme*, in the tombs of Langey du Bellay, and of the Chancellor De Birague, by Germain Pilon, &c. But fashion and the prevailing taste now required from artists nothing but profane and voluptuous compositions, and they adopted this line of Art all the more readily, seeing, as they did every day, most beautiful works of Christian sculpture mutilated by a new

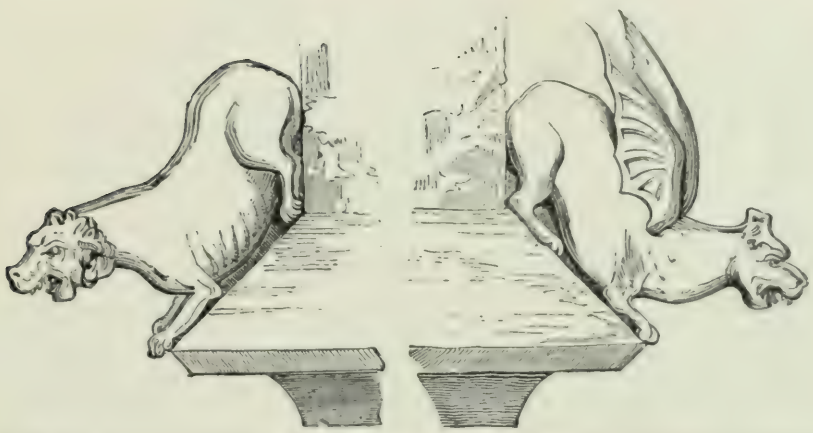
tribe of Iconoclasts, the Huguenots, who seldom showed mercy to the figured monuments in Catholic churches. The stalls of the Cathedral of Amiens, by Jean Rupin, the rood-loft by Jean Boudin, and a number of other works of



Fig. 243.—"The Entombment," by Richier, in the Church of St. Michel (Meuse). (Sixteenth Century.)

the same kind, testify to the irruption of the Greek style, its implantation in religious art, and its hybrid association with pointed architecture. It is, however, only due to our sculptors of the sixteenth century to say, that when

they sacrificed themselves to the requirements of their age in imitating the masterpieces of Italy, they approached the natural grace of Raphael much closer than Cellini, Primaticcio, or any of the other Italian artists who were settled in France; that they combined in the best possible way the mythological expression of the ancients with our modern ideas, and that, thanks to them, France is enabled to point with pride to a natural art, original and independent, which has been handed down to our days in direct succession by Sarrazain, Puget, Girardon, and Coysevox.



Figs. 244, 245.—Gargoyles on the Palace of Justice, Rouen. (Fifteenth Century.)

ARCHITECTURE.

The Basilica the first Christian Church.—Modifications of Ancient Architecture.—Byzantine Style.—Formation of the Norman Style.—Principal Norman Churches.—Age of the Transition from Norman to Gothic.—Origin and Importance of the pointed arch.—Principal Edifices in the pure Gothic Style.—The Gothic Church, an Emblem of the Religious Spirit in the Middle Ages.—Florid Gothic.—Flamboyant Gothic.—Decadence.—Civil and Military Architecture: Castles, Fortified Enclosures, Private Houses, Town Halls.—Italian Renaissance: Pisa, Florence, Rome.—French Renaissance: Mansions and Palaces.



HEN the Christian family, humble and persecuted, was beginning to form itself into congregations; when it was forbidden to consecrate any special edifice to the performance of the services of its religion—a religion which opposed to the gorgeous ceremonies of polytheism the most austere simplicity—any refuge might have seemed good enough which offered to the faithful the means of assembling themselves together in security; any retreat must have appeared sufficiently ornamented which would recall to the disciples of the crucified Saviour the mournful events preceding the glorification of that Divine sacrifice. But when the religion proscribed one day found itself on the next the religion of the State, things changed.

Constantine, in the mighty ardour of his zeal, wished to see the worship of the true God efface in pomp and in magnificence all the solemnities of the heathen world. In expelling the idols from their temples, the idea could not have suggested itself of using these buildings for the new religion, because they were generally of excessively limited dimensions, and the plan on which they were built would have but indifferently answered the requirements of the Christian ceremonial. What was necessary for these services was principally a spacious nave, in which a large congregation could assemble to hear the same word, to join in the same prayer, and to intone the same chants. The Christians sought, therefore, among the

edifices then in existence (Fig. 246), for such as would best answer these purposes. The *basilicas* presented themselves; these buildings served at once as law-courts and places of assembly for tradesmen and money-changers, and were generally composed of one immense hall, with lateral galleries and tribunes adjoining it. The name of *basilica*, derived from the Greek word *basileus* (a king), was given them, according to some writers, from the fact that formerly the kings themselves used to administer justice within their walls; according to others, because the basilica of Athens served as a tribunal of the second archon, who bore the title of king: whence the edifice was called *stoa basiliké* (royal porch), a designation of which the Romans preserved only the adjective, the substantive being understood.

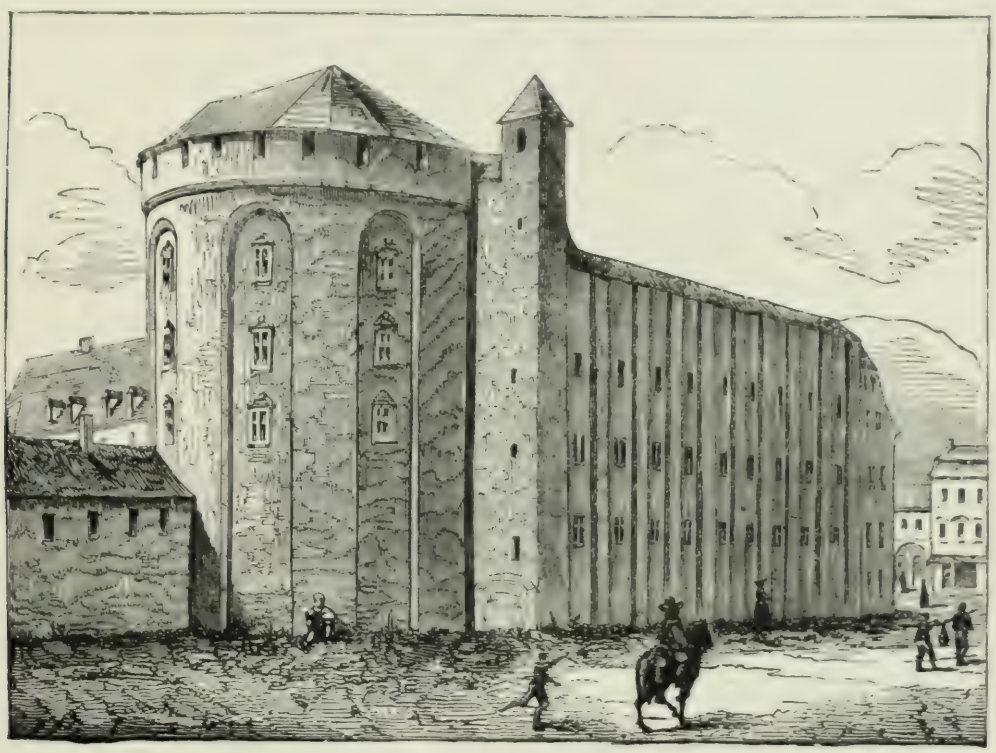


Fig. 246.—Basilica of Constantine, at Trèves, transformed into a Fortress in the Middle Ages.

"The Christian basilica," says M. Vaudoyer, in his learned treatise on architecture in France, "was most certainly an imitation of the heathen basilica; but it is of importance to observe that from one cause or another the Christians, in the construction of their basilicas, very soon substituted for the Grecian architecture of the ancient basilicas a system of arches reposing directly on isolated columns, which served as their supports; a perfectly new contrivance, of which there existed no previous example. This new mode of construction, which has generally been attributed to the want of skill in the builders of this period, or to the nature of the materials they had at their disposal, was, however, to become the fundamental prin-

ciple of Christian art; a principle characterised by the breaking up of the range of arches, and by the abandonment of the system of rectilinear construction of the Greeks and Romans.

"Indeed, the arcade, which had become the dominant element of Roman architecture, had nevertheless remained subject to the proportions of the Greek orders, of which the entablature served as an indispensable accompaniment; and from this medley of elements so diverse was produced the mixed style which characterises the Greco-Roman architecture. But the Christians, in separating or breaking up the arcade, in abandoning the use of the ancient orders, and in making the column the real support of the arch, laid the foundations of a new style, which led to the exclusive employment of arches and vaults in Christian edifices. The Church of St. Sophia at Constantinople, built by Justinian in the middle of the sixth century, affords the most ancient example of this system of construction by arches and vaults in a Christian church of large dimensions."

Transported to the East, the Latin style there assumed a new character, owing especially to the adoption and generalisation of the cupola, of which there were some examples in Roman architecture, but only as an accessory; whereas, in what is called Byzantine architecture, this form became dominant, and, as it were, fundamental; thus, at all periods and at each time that the architectural influence of the East made itself felt in the West, we see the cupola introduced into buildings. The Church of St. Vitale at Ravenna affords, in its plan (Fig. 247) and in its general appearance, an example of this influence, which is quite Byzantine.

Edifices of Latin architecture, properly so called, are rare; we might almost say that they have all disappeared (Figs. 248 and 249); but, if some churches in Rome, whose foundation dates back to the fifth and sixth centuries, can be considered as specimens of this first period of Christian art, it is in the arrangement of the plan much more than in the details of execution, which are, for the most part, the work of later periods.

In the days when Christianity was so triumphantly established as to have no fear nor scruple in utilising, in the construction of its churches, the ruins of the ancient temples, it generally happened that the architect, conforming himself to new requirements, endeavoured by a prudent return towards the traditions of the past, to avoid those striking incongruities which would have deprived of all their value the magnificent materials he had at his disposal. Hence arose a style still undecided; hence mixed creations, which it will suffice merely to mention. Then we must not forget—to say nothing of the case in which, as in the old Roman city, Christian basilicas might be built with the marble of heathen sanctuaries—the monuments of this same Rome were still the only models that presented themselves for imitation. Finally,

for this architecture which the Christian religion was to create as its own, it was obvious there would be an infancy, an age of groping in the dark and of uncertainty; and at length that there should be a separation from the past, and a gradually experienced feeling of individual strength (Fig. 250).

This infancy lasted about five or six centuries; for it was only about the year 1000 that the new style—which we see at first made up of "recollections" and weak innovations—assumed an almost determinate form.

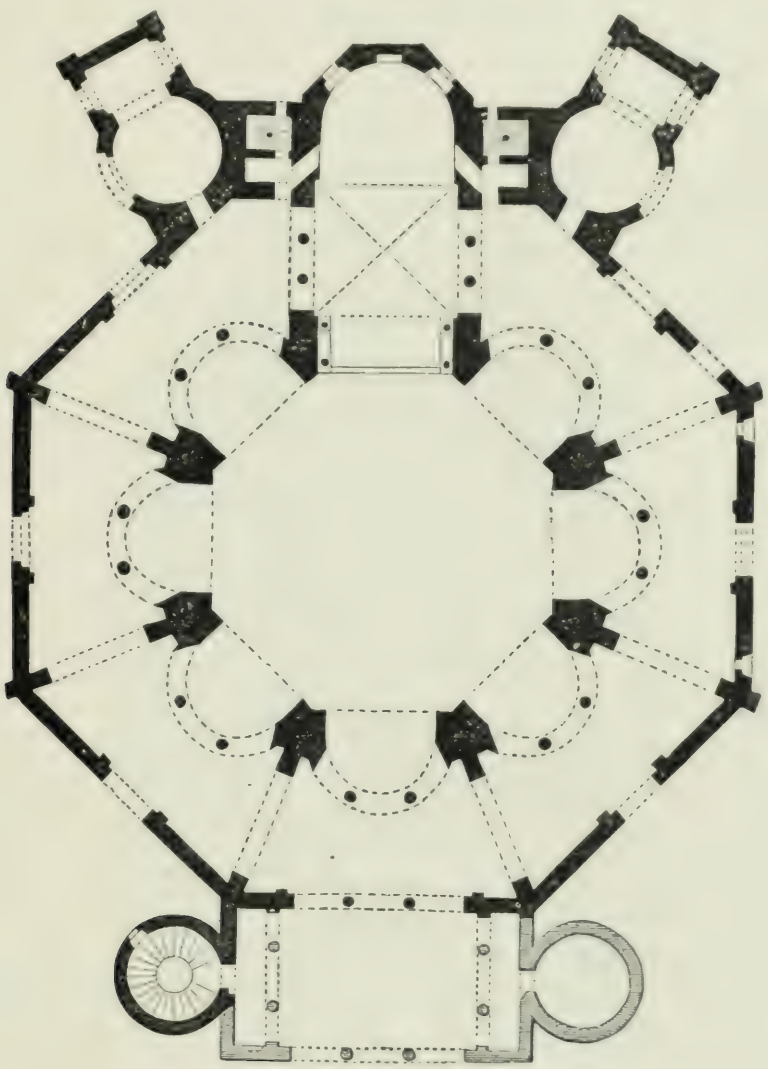


Fig. 247.—Church of St. Vitale, at Ravenna. Byzantine style. (Sixth Century.

This is the period called Norman or Romanesque, which, according to M. Vaudoyer, has left us some monuments that are "the noblest, the simplest, and the severest expression of the Christian temple."

"Three years after the year 1000, which was supposed was to be the last year of the world," says the monk Raoul Glaber, "churches were renewed in nearly every part of the universe, especially in Italy and in Gaul, although the greater number were still in a condition good enough to require no repairs." "It is to this period, that is to say, the eleventh century,"

adds M. Vaudoyer, "that we must assign the greater number of the ancient churches of France, grander and more magnificent than all those of preceding centuries; it was then, also, the first associations of builders were formed, whereof the abbots and the prelates themselves formed a portion, and which were essentially composed of men bound by a religious vow; the Arts were cultivated in the convents, the churches were built under the direction of bishops; the monks co-operated in works of all kinds. . . . The plan of the Western churches preserved the primitive arrangement of the Latin basilica

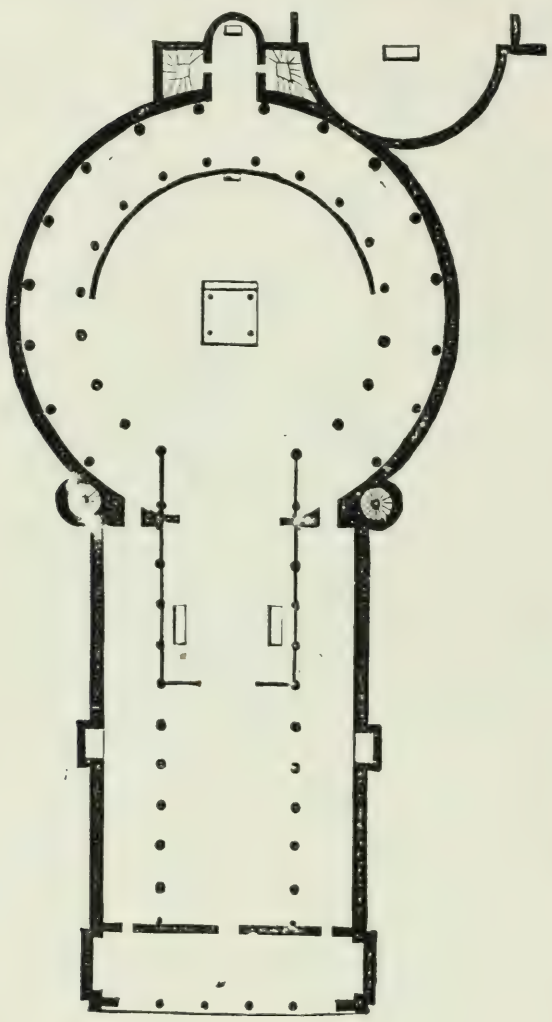


Fig. 248.—The Church of St. Agnes, at Rome, Latin style (Fifth Century). Restored and debased in the Seventeenth Century.

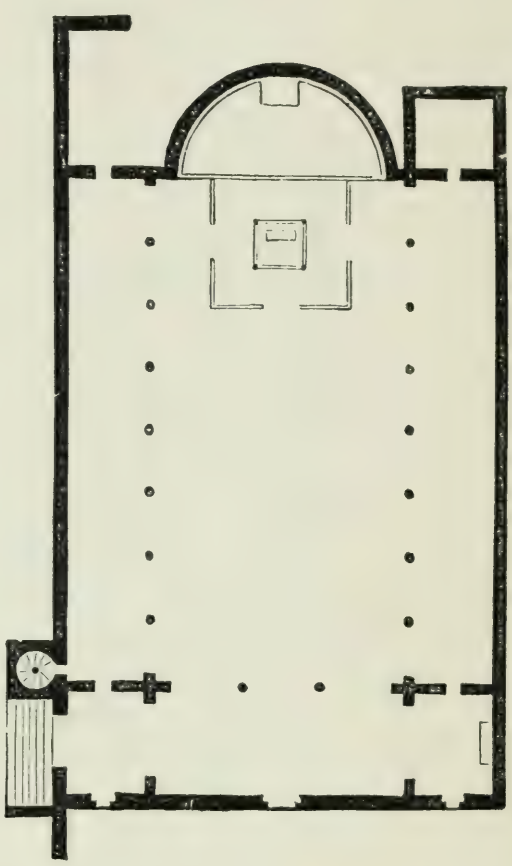


Fig. 249.—The Church of St. Martin, at Tours (Sixth Century). Rebuilt or restored in the Eleventh Century.

—that is, the elongated form and the lateral galleries; the most important modifications were the lengthening of the choir and of the galleries, or of the cross, a free passage established round the apse (Fig. 251); and, lastly, the combination of chapels, which grouped themselves around the sanctuary. In the construction the isolated columns of the nave are sometimes replaced by pillars, the spaces between which are filled up with semicircular arches, and a general system of vaulted roofs is substituted for the ceilings and

timber roofs of the ancient Latin basilicas. . . . The use of bells, which was but sparingly adopted in the East, contributed to give to the churches of the West a character and an appearance quite their own, and which they owe particularly to those lofty towers that had become the essential part of their façade."

The façade itself is generally of great simplicity. We enter the edifice by one of three doors, above which runs, in most cases, a little gallery formed of very small columns close to each other, supporting a range of arcades; and these arcades are often ornamented with statues, as we find

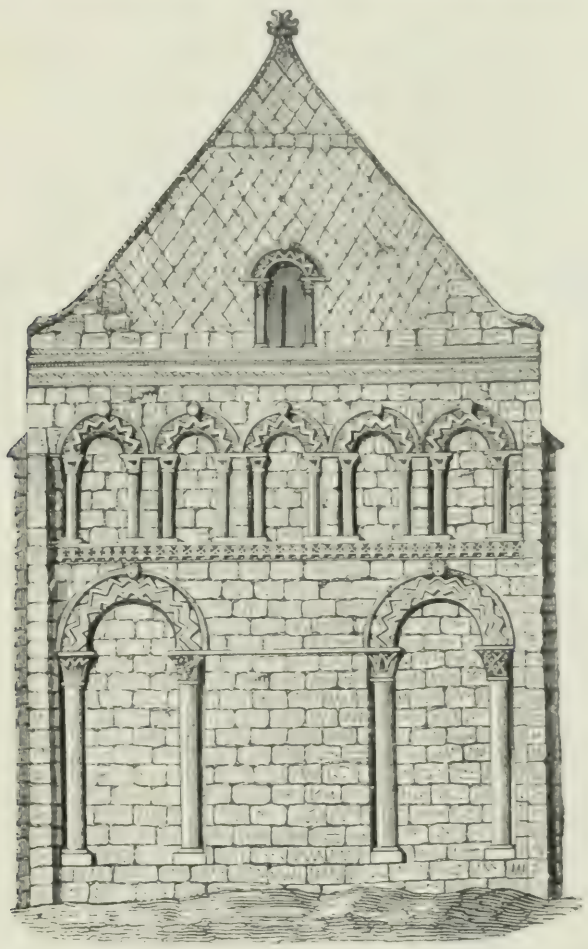


Fig. 250.—Remains of the Church of Mouen, in Normandy. Architecture of the Eighth or Ninth Century.

in the church of Notre-Dame at Poitiers, which—together with the churches of Notre-Dame des Doms, at Avignon; of St. Paul, at Issoire; of St. Sernin, at Toulouse; of Notre-Dame du Port, at Clermont, &c.—may be considered as one of the most complete specimens of Norman architecture.

In churches of this style, as for instance those of St. Front, at Périgueux; of Notre-Dame, at Puy en Velay; of St. Etienne, at Nevers, are seen also some cupolas; but we must not forget that the Byzantine architects, whose migrations towards the West were constantly taking place at this period, could not fail to leave traces of their wanderings, and we must acknowledge

that, especially in our own country (France), where Oriental influence was never more than partial, the union of the two architectonic principles

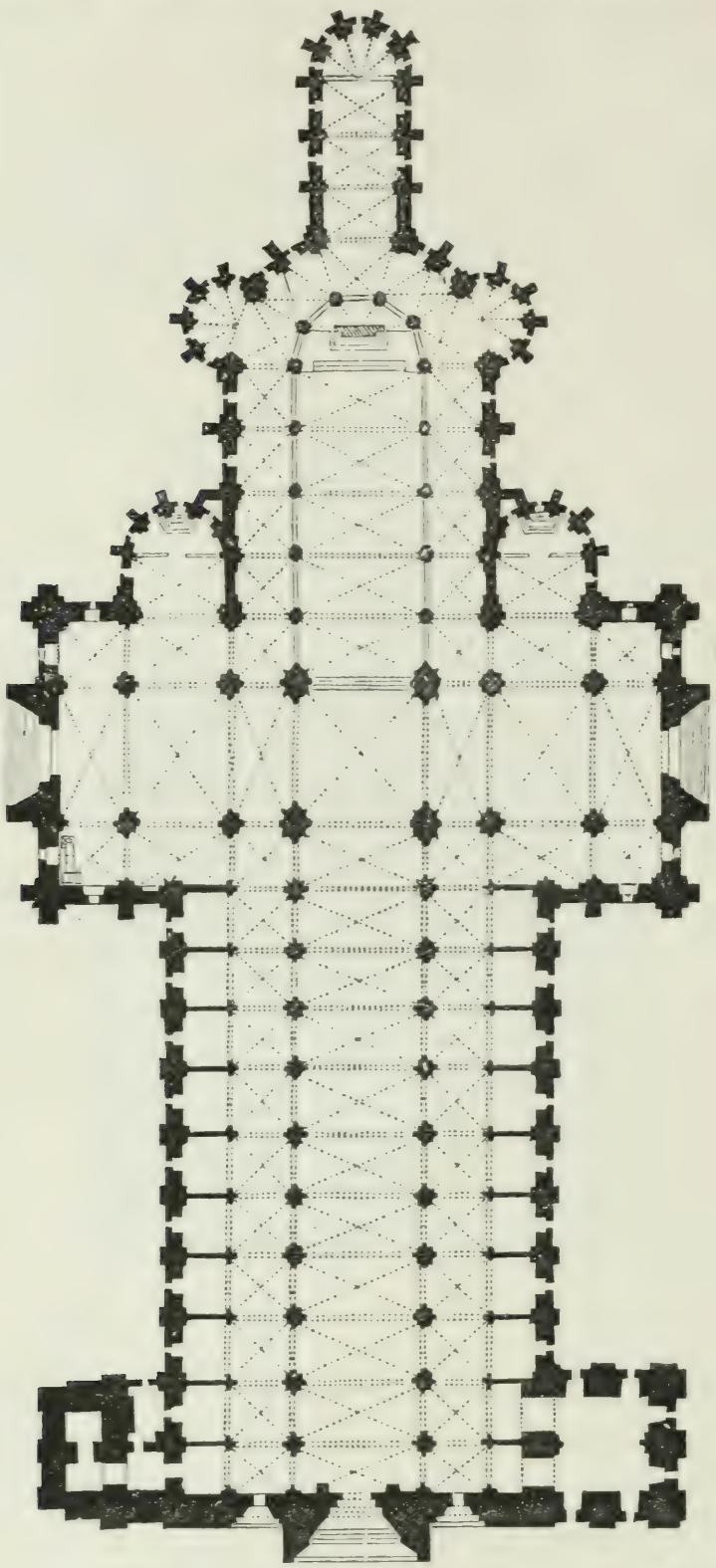


Fig. 251.—Notre-Dame, Rouen, Gothic style. (Thirteenth Century.)

produced the happiest results. The Cathedral of Angoulême, for example, is justly regarded as one of the edifices in which Oriental taste harmonises the best with the Norman style.

At the beginning of this period, the bell-towers were of very little importance; but gradually we find them rising higher and higher, and attaining to great elevations. Some cathedrals on the borders of the Rhine, and the Church of St. Etienne at Caen, are examples of the extraordinary height to which these towers were built. In principle, we may add, there was only one bell-tower (Fig. 252); but it generally happened that two were given to churches built or restored after the year 1000: St. Germain-des-Prés had three bell-towers—one over the portal, and one at each side of the transept; certain churches had four and even five bell-towers.

Norman bell-towers are generally square, exhibiting, in stories, two or three ranges of round-arched arcades, and terminating in a pyramidal roof resting on an octagonal base. The Abbey of St. Germain d'Auxerre possesses one of the most remarkable bell-towers of the Norman style; then come, although built subsequently to the principal edifice, those of the Abbaye aux Hommes, at Caen.

The sun's rays penetrated into the Norman church first through the *oculus*, a vast round opening intended to admit light into the nave, and situated in the upper part of the façade, which generally rose in the form of a gable above one or several rows of small columns on the exterior. A series of lateral windows opened on the side-aisles of the edifice; another was pierced on a level with the galleries; and a third between the vaulted arches of the nave.

The crypt, a sort of subterranean sanctuary, which generally contained the tomb of some beatified saint, or of some martyr to whom the edifice was dedicated, formed very often an integral part of the Norman church. The architecture of the crypt, which had for its ideal object to recall to the mind the period when the offices of the Christian religion were performed in caverns and in catacombs, was generally of a massive and imposing severity, well suited to express the sentiment which must have presided over the earliest Christian buildings.

The Norman style, grandiose in its austerity, quiet and compact even in its richest phantasy, was on the eve of *individualising* for ever, perhaps, Christian architecture; its rounded arches, uniting their full soft curves to the simple profiles of columns, robust even in their lightness, seemed to characterise at one and the same time the elevated calm of hope and the humble gravity of faith. But the pointed arch appeared; not, indeed, as certain authors have thought they were right in affirming, from an outburst of spontaneous invention, for we find the principle and the application of it not only in many edifices of the Norman period, but even in the architectural contrivances of the most remote times. And it happened that this simple breaking up of the round arch, which the Norman builders had skilfully

utilised, giving more of slenderness or graceful strength to vaults of great extent, became the fundamental element of a style which, in less than a century, was to shut the future to a tradition dating from six or eight

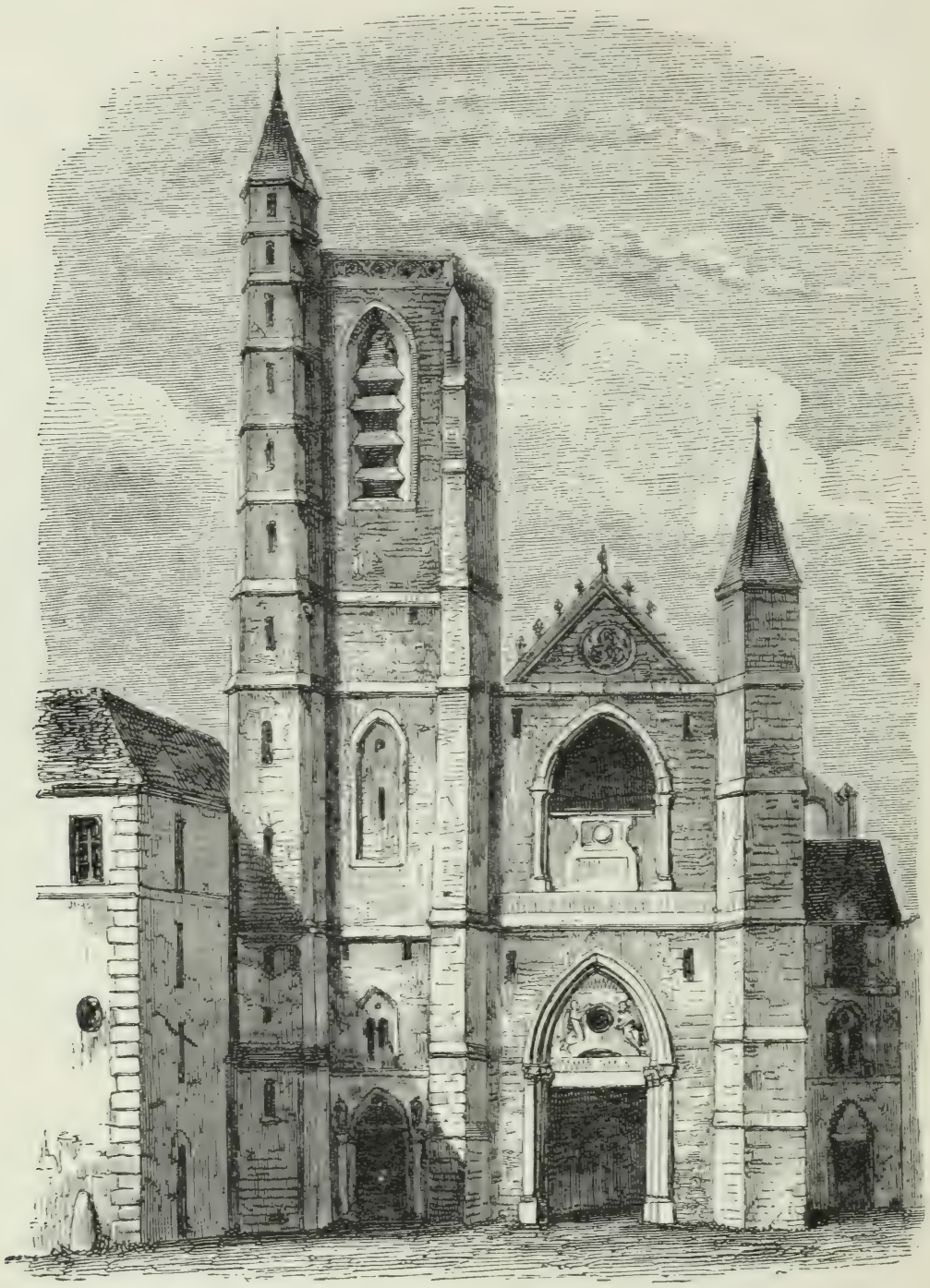


Fig. 252.—Ancient Church of St. Paul-des-Champs, at Paris, founded in the Seventh Century, by St. Eloi. Restored and in part rebuilt in the Thirteenth Century.

centuries, and which could with justice pride itself on the most beautiful architectural conceptions. (Fig. 256).

From the twelfth to the thirteenth century the transition took place. The Norman style, which is distinguished by its round arch, maintained the



Fig. 253.—Notre-Dame la Grande of Poitiers (Twelfth Century).

struggle with Gothic, of which the pointed arch is the distinctive mark. In the churches of this period we find also, with regard to the ground-plan of edifices, the choir assuming larger dimensions, necessitated no doubt by increased ceremonials in the services. The Latin cross, which was the ground-plan whereon up to this time the greater number of sanctuaries were built, ceased to indicate as precisely as heretofore its outlines; the nave was raised considerably in height, the lateral chapels were multiplied, and often broke the perspective of the side-aisles; bell-towers assumed greater importance, and the placing of immense organs above the principal entrance gave rise to a new system of elevated galleries in this part of the building.

The churches of St. Denis; of St. Nicholas, Blois; the Abbey of



Fig. 254.—Tympanum of the Portal of St. Trophimus, at Arles. (Twelfth Century.)

Jumiéges; and the Cathedral of Châlons-sur-Marne, are the principal examples of the architecture of the mixed style.

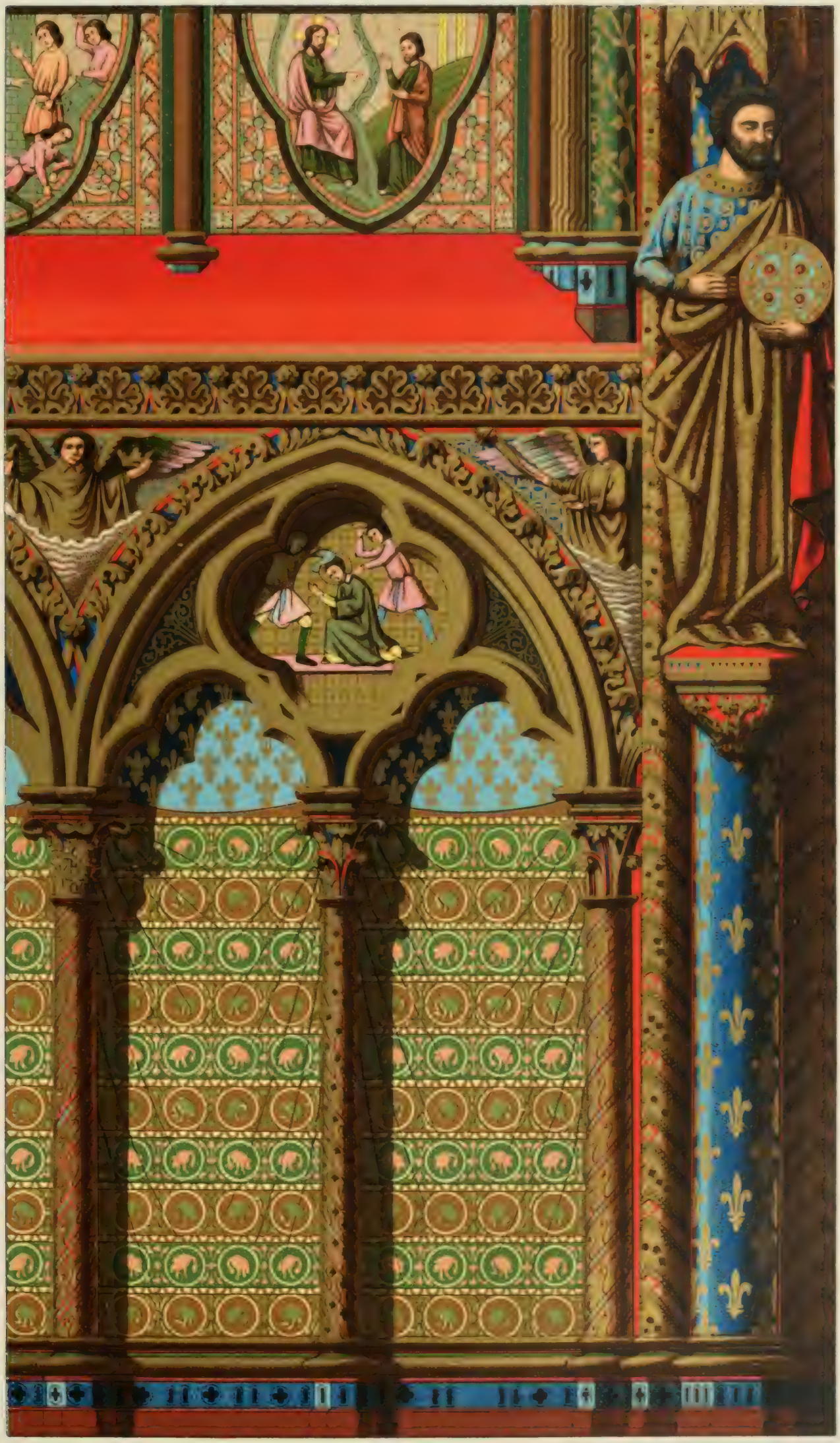
It should be remarked that for a long while, in the north of France, the pointed arch had prevailed almost entirely over the round arch, at the time when, in the south, Norman tradition, blended with the Byzantine, still continued to inspire the builders. Nevertheless, the demarcation cannot be rigorously established, for, at the time when edifices of the purest Norman style showed themselves in our (French) northern counties (as, for example, the Church of St. Germain-des-Prés, and the apse of St. Martin-des-Champs, Paris), we find, at Toulouse, at Carcassonne, the most remarkable specimens of the Gothic style. At last Gothic architecture finally gained the day. "Its principle," says M. Vitet, "is in emancipation, in liberty, in the spirit





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DECORATION OF LA SAINTE CHAPELLE PARIS

Thirteenth Century

of association and commerce, in sentiments, quite indigenous and quite national: it is homely, and more than that, it is French, English, Teutonic, as the case may be; Norman architecture, on the contrary, is sacerdotal."

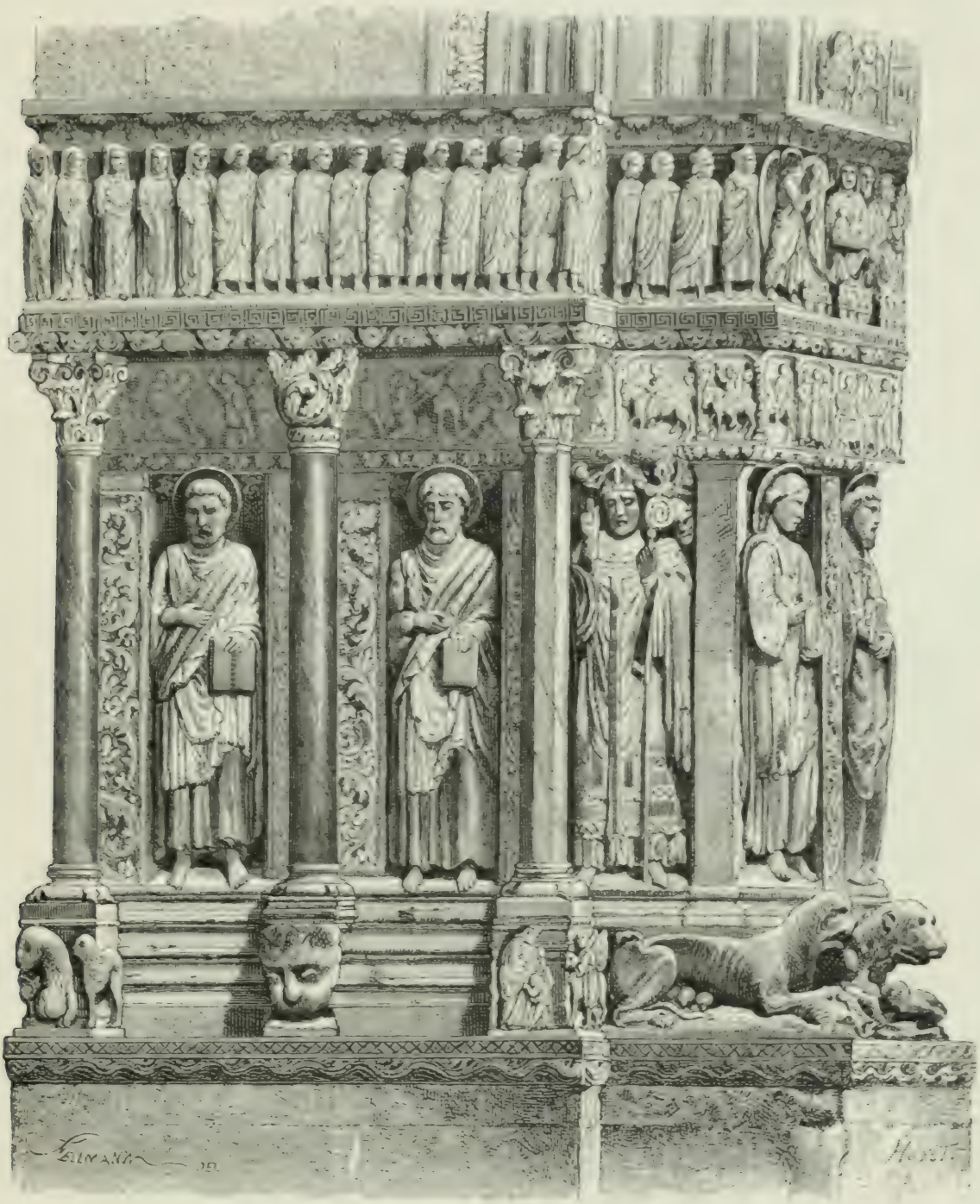


Fig. 255.—Details of the Portal of St. Trophimus, at Arles. (Twelfth Century.)

And M. Vaudoyer adds: "The rounded arch is the determinate and invariable form; the pointed arch is the free and indefinite form which lends itself to unlimited modifications. If, then, the Pointed style has no longer the austerity of the Norman, it is because it belongs to that second phase

of all civilisation, in which elegance and richness replace the strength and the severity of primordial types."

It was, moreover, at this period that architecture, like all the other arts, left the monasteries to pass into the hands of lay architects organised into confraternities, who travelled from place to place, and thus transmitted the traditional types; the result of this was that buildings raised at very great

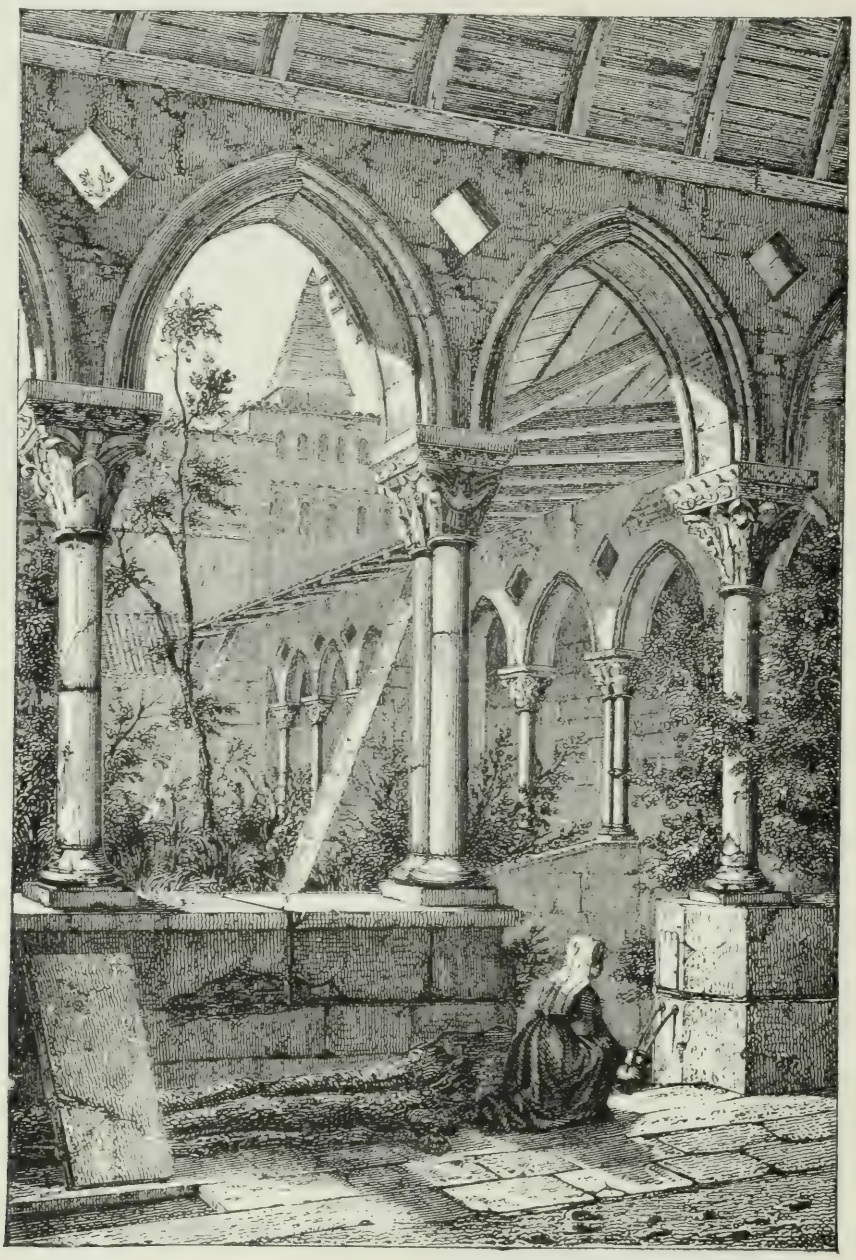


Fig. 256.—Cloister of the Abbey of Moissac, Guyenne. (Twelfth Century.)

distances from each other presented a striking analogy, and often even a complete similitude to each other.

There has been much discussion not only on the origin of the pointed arch, but also as to the beauty and excellence of its form. According to some it was suggested by the sight of many arches interlaced, and only constituted



Fig. 257.—Mayence Cathedral. Romanesque. (Twelfth and Thirteenth Centuries.)

one of those fantastic forms which an art in quest of novelty adopts; others, among whom is M. Vaudoyer, attribute to it the most remote origin, by making it result quite naturally from the first attempts at building in stone,— "from a succession of courses of stone so arranged that each overhung the other;" or else in wooden constructions, "from the greater facility there was in forming with beams a pointed rather than a perfectly rounded arch;" others consider the adoption of the Pointed style, as we said above, as nothing but a proof of the religious independence succeeding the rigid faith of earlier days. A third opinion, again, is that of M. Michiels, who looks on the Pointed style as in some sort an inevitable result of the boldness of the Norman, and who considers the Gothic, of which it is the characteristic, as "expressing the spirit of a period when religious feeling had attained its most perfect maturity, and Catholic civilisation produced its sweetest and most agreeable fruits."

Whatever may be the merits of these different opinions, into the discussion of which we need not enter, it is now generally assumed that the Pointed style, properly so called, sprang up first within the limits of the ancient Ile-de-France, whence it propagated itself by degrees towards the southern and eastern provinces.

M. Michiels, agreeing on this point with the celebrated architect Lassus, points out that it would be as difficult to attribute the creation of this style to Germany as to Spain. It was in the thirteenth century that the finest Gothic buildings appeared in France; while in Germany, except the churches built, as it were, on the French frontier, we find nothing at that period but Romanesque churches (Fig. 257); and it is reasonable to suppose that, if we owed the general adoption of the pointed arch to Spain, the introduction of it would have been gradually made through that part of the country situated beyond the Loire, where, however, the Norman style continued to be in great favour when it was almost entirely abandoned in the north of France.

A century sufficed to bring the Pointed style to its highest perfection. Notre-Dame (Fig. 258) and the Sainte-Chapelle, in Paris; Notre-Dame, Chartres; the cathedrals of Amiens (Fig, 259), Sens, Bourges, Coutances, in France; those of Strasbourg, Fribourg, Altenberg, and Cologne, in Germany, the dates of whose construction succeed each other at intervals from the first half of the twelfth to the middle of the thirteenth century, are so many admirable specimens of types of this art, which we may here call relatively new.

To know to what marvellous variety of combinations and effects, by merely modifying it in height and breadth from its original type, this pointed arch, which, taken by itself, might appear the simplest of forms, can attain, one must have passed some time in dividing into the different

parts of which it is composed, by an accurate examination of its *tout*

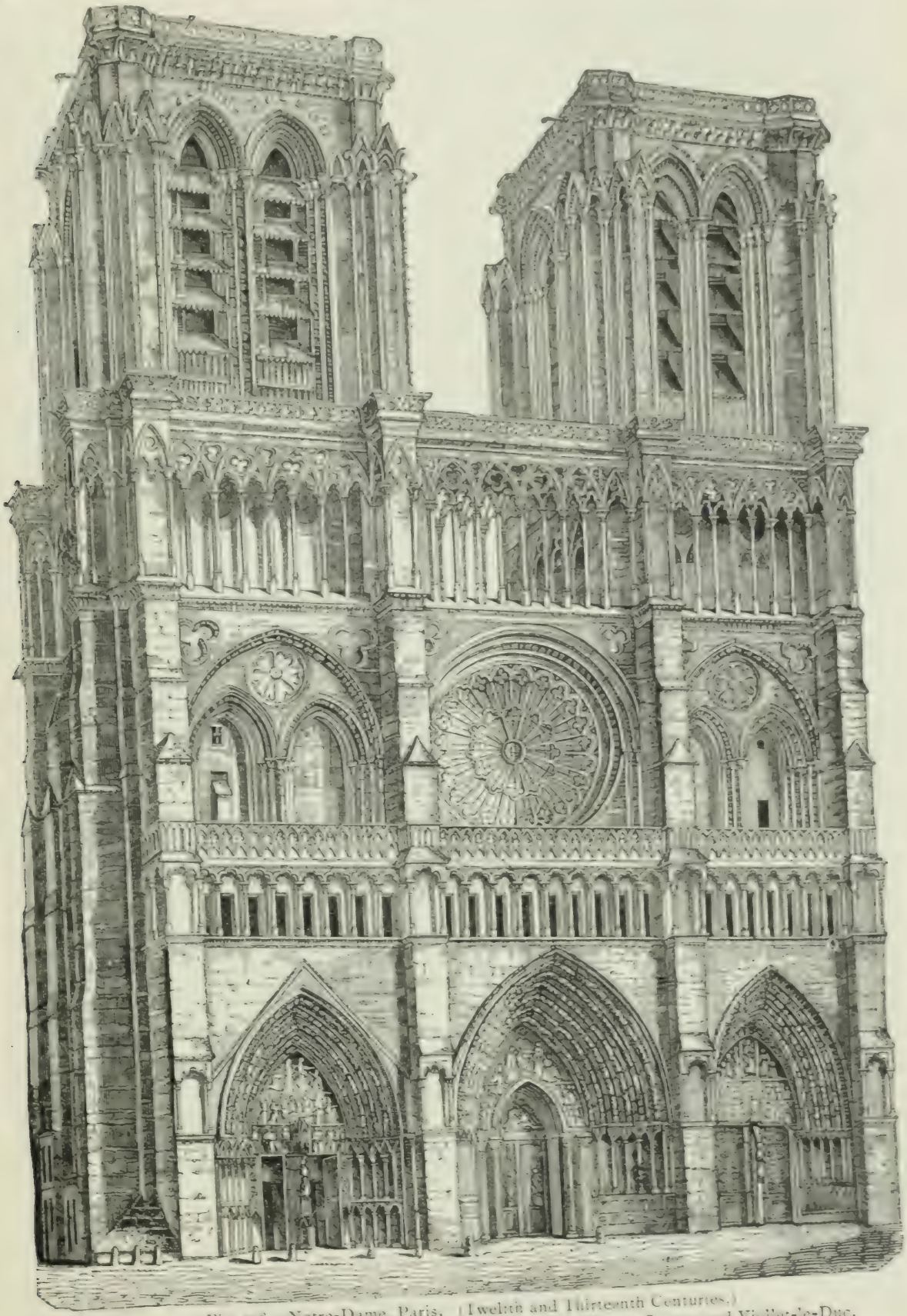


Fig. 258.—Notre-Dame, Paris. (Twelfth and Thirteenth Centuries.)
View of the principal Façade before the restoration executed by Messrs. Lassus and Viollet-le-Duc.

ensemble, such an edifice as Notre-Dame, Paris, or as the Cathedral of



Fig. 259.—Interior of Amiens Cathedral. (Thirteenth Century.)

Strasbourg; the first of which attracts attention by the sustained boldness of its lines, strong as they are graceful; the second, by its perfectly bold independence, seeming, as it does, to taper away as by enchantment, in order to bear to an incomprehensible height the evidence of its surprising temerity.

We must rise in thought above the edifice to grasp the plan of its first conception; we must, from below, study it on all sides to perceive with what art its various parts are arranged, grouped, placed at certain intervals from each other; we must seek to discover the contrivance by virtue of which the immense variety of curves, of sloping and vertical lines, are harmonised; we must enter the church and stand in its nave, with its interminable delicate ribs—how many clusters of small columns extend



Fig. 260.—Capital of a Column in the Abbey of St. Geneviève (destroyed), Paris. (Eleventh Century.)

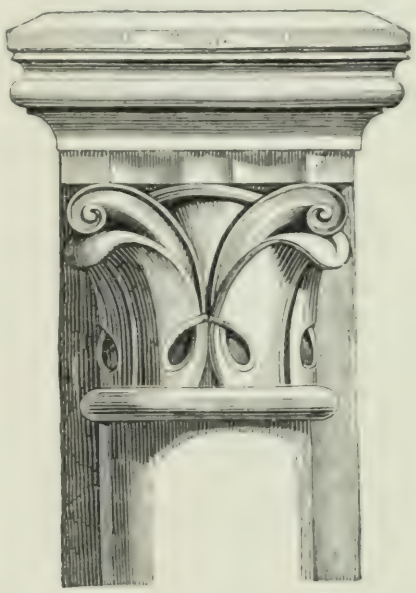


Fig. 261.—Capital of a Column in the Church of St. Julien-le-Pauvre (destroyed), Paris. (Twelfth Century.)

above the slender pillars!—we must contemplate the beautiful fancies of the rose-windows, which by their many-coloured glass sober down the glare of the light passing through them; we must gain the summit of those towers, those spires, and from them command the dizzy extent of aërial space, and the landscape stretching out around them below; we must follow attentively with our eye the strikingly bold outlines which the turrets, the ornamented gables, the tops of the bell-towers trace upon the sky. This done, we should yet have paid but a brief tribute of attention to these prodigious edifices.

When you approach the Gothic church, when you stand beneath its lofty roof, it is as if a new country were receiving you, possessing you, casting around you an atmosphere of reverie in which you feel your wretched

servitude to worldly interests vanishing away, and you become conscious of more solid, more important ties, springing up in you. The Deity whom our finite nature can figure to ourselves seems in fact to inhabit this immense building, to be willing to put himself in direct communion with the humble Christian who approaches to bow down before Him. There is nothing in it of the human dwelling-place—all relating to our poor and miserable existence is here forgotten; He for whom this residence was constructed is the Strong, the Great, the Magnificent, and it is from a paternal condescension that He receives us into His holy habitation.

The Christianity of the Middle Ages had then been able to find in the



Fig. 262.—Fragment of the Architecture of the Goths, Toledo. (Seventh Century.)



Fig. 263.—Capital in the Church of the Célestins (destroyed), Paris. (Fourteenth Century.)

Gothic style a tongue as tractable as it was energetic, as simple as it was ingenious, which, for the pious excitement of souls, was to declare to the senses all its ineffable poetry. But as the unbounded faith, of which it was the faithful organ, was on the next dawn of its most ardent aspirations about to decline, so this splendid style was almost as soon to lose its vigour, and to exhaust itself in the unrestrained manifestation of its power.

Springing into existence with the warm enthusiasm of the first Crusades, the Pointed style seems to follow in its different phases the decline of faith in the time of these adventurous enterprises. It began by a sincere outburst, and was produced by a bold, unshackled genius; then a factitious or reflected ardour gave birth to elaborateness and mannerism;

then the fervent zeal and the artistic sentiment dwindled away: this is the decadence.

Gothic art raised itself in less than a century to its zenith; within two centuries more it was to reach the fatal point when it would begin to decline. The thirteenth century saw it in all its glory with the edifices we have mentioned; in the fourteenth it had become the Florid or *Rayonnant* Gothic, which produced the churches of St. Ouen at Rouen, and of St. Etienne at Metz. "Then," says M. A. Lefèvre, one of the latest historians of architecture, "no more walls; everywhere open screen work supported by slender arcades; no more capitals, rows of foliage imitated directly from nature; no more columns, lofty pillars ornamented with round or bevelled mouldings. As yet, however, there was nothing weakly in its extreme elegance; slim and delicate without being gaunt, the Florid style did not in the least disfigure the churches of the thirteenth century, which it bounded and decorated.

"But after the *Rayonnant* Gothic came the *Flamboyant*, which, always under the pretext of lightness and grace, denaturalises the ornaments, the forms, and even the proportions of the architectual members. It effaces the horizonal lines which used to give two stories to the windows of the nave, fills up the nave with irregular compartments, *cœurs*, *soufflets*, and *flammes*; suppresses the angles of the pillars and sharpens the mouldings; leaves even to the most massive supports nothing but an undulating, vanishing, impalpable form, where shadow cannot fix itself; changes the lancet-arches into braces, or into flat-arched vaults more or less depressed, and the florid ornamentation of the pinnacles into whimsical scrolls. It reserved all its riches for accessory or external decorations, stalls, pulpits, hanging key-stones, running friezes, rood-screens, and bell-towers. The decadence of the style as a whole corresponds with great progress in the details." (Fig. 264.)

The churches of St. Wulfran, Abbeville; of Notre-Dame, Cléry-sur-Loire; of St. Riquier, Corbeil; and the cathedrals of Orleans and of Nantes, may be cited as the principal specimens of the *Flamboyant* style, and as the last notable manifestations of an art which thenceforward diverged more and more from its original inspiration. The middle of the fifteenth century is generally fixed as the limit beyond which the handsome Gothic buildings that still rose were no longer, in any degree, the normal productions of their period, but were felicitous copies or imitations of works already consecrated by the history of the art.

A remark may here be made showing to what extent religious feeling predominated in the Middle Ages; it is that at the very moment when the Norman and Gothic architects were designing and producing so many marvellous habitations for the Deity, they seemed to bestow scarcely



Fig. 264.—The Divinity School, Oxford. (Fourteenth Century.)

any attention on the construction of comfortable or luxurious dwellings for man, even those destined for the most exalted personages of the State. In proportion as the sentiment of original faith lost its intensity, Art occupied itself more and more with princely and lordly habitations. The middle class was the last favoured by this progress, and the feeling of their position as citizens had taken the place of a zeal exclusively pious; so we find the "town-halls" absorbing the splendour and elegance of which private houses remained destitute, these being generally built of wood and plaster, and in the heart of the towns, so close together that they seemed to be disputing for light and air.



Fig. 265.—Ancient Castle of Marcoussis, near Rambouillet. (Thirteenth Century.)

Everywhere, during the Middle Ages, rose the church—the home of peace; but everywhere also towered up at the same time the castle, that characterised the permanent state of war in which feudal society lived, delighted, and gloried.

"The castles of the richest and most powerful nobles," says M. Vaudoyer, "consisted of irregular, uncomfortable buildings, pierced with a few narrow windows, standing within one or two fortified enclosures, and surrounded by moats. The donjon, a large high tower, generally occupied the centre, and other towers, more or less numerous, flanked the walls, and served for the defence of the place." (Fig. 265.) "These castles," adds M. Mérimée,

"generally present the same characteristics as the ancient *castellum;* but a certain ruggedness, a striking quaintness in plan and execution, bear witness to a personal will, and that tendency to isolation which is the instinctive sentiment of the feudal system."

In most of the buildings destined for the privileged classes, it seems as if it were deemed unnecessary that care should be taken to secure harmony of form. The decorative style of the period showed itself chiefly in the interior of some of the principal apartments, the habitable quarters of the lord of the castle and of his family. There were vast fireplaces with enormous chimney-corners surmounted by projecting mantelpieces; the vaulted roof was ornamented with pendents of various devices, and with painted or carved escutcheons. Narrow closets, contrived in the walls,



Fig. 266.—Staircase of a Tower.

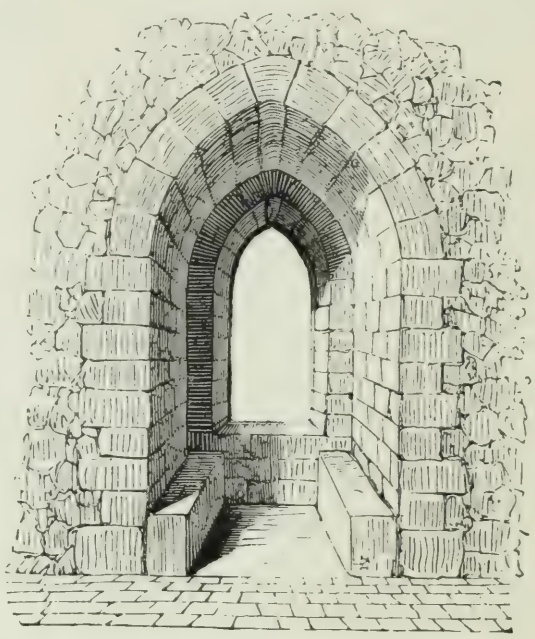


Fig. 267.—Pointed Window with Stone Seats. (Thirteenth Century.)

served as sleeping-places. The embrasures of the windows pierced in the excessively thick walls formed so many little chambers, raised a few steps above the floor of the room to which they admitted light. Stone seats ran along each side of these embrasures. Here the inmates of the tower generally sat when the cold did not oblige them to draw near to the fireplaces. (Figs. 266 and 267.)

With the exception of these slight sacrifices made to the comforts of life, everything in the castle was arranged, contrived, and disposed with a view to strength and resistance; and yet it cannot be denied that, unintentionally, the builders of these silent edifices have many a time—aided often, it is true, by the picturesque sites which encircle their works—attained to a majesty of height and a grandeur of form truly extraordinary.

If the Norman church expresses with gentle severity, and the Gothic church with sumptuous fancy, the important and sublime doctrines of the Gospel, we must equally allow that the castle, in some sort, loudly proclaims the stern and uncivilised notions of the feudal authority of which it was at once the instrument and the symbol.

Placed, in most cases, on natural or artificial eminences, it is not without

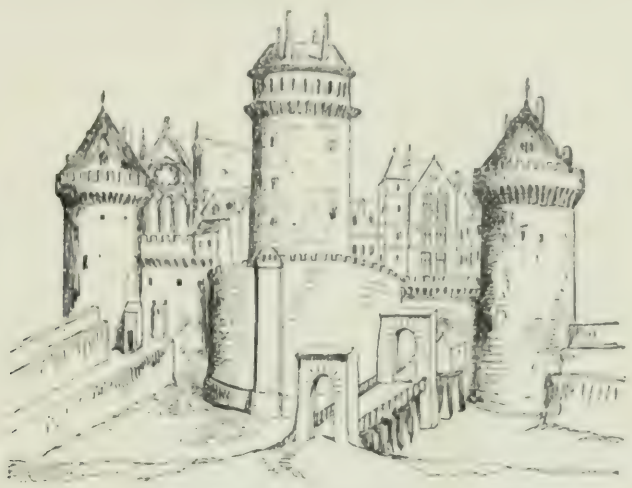


Fig. 268.—The Castle of Coucy in its ancient state.
(From a Miniature taken from a Manuscript of the Thirteenth Century.)

a sort of eloquent boldness that the towers and donjons shoot into the air, succeed each other at intervals, command and support each other. It is frequently not without a sort of fantastic grace that the walls scale the rising ground, making an infinity of the strangest bends, or coiling themselves about with the supple ease of a serpent.

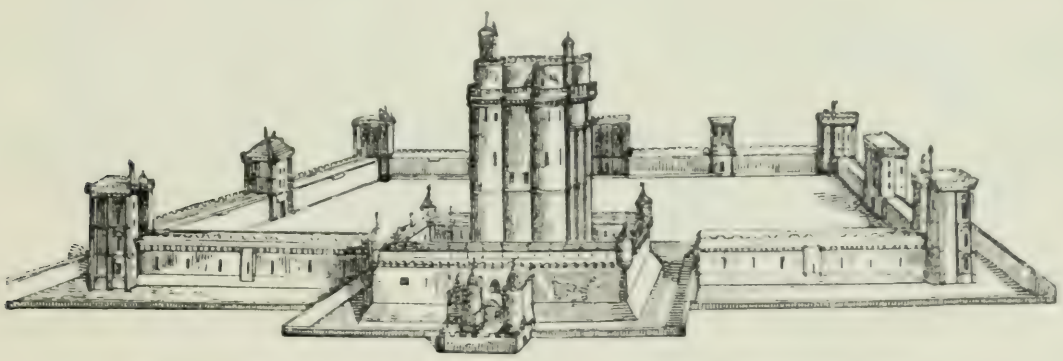


Fig. 269.—The Castle of Vincennes, as it appeared in the Seventeenth Century.

Evidently, if the castle raises its gloomy head high into the air, it has no other object in doing so than to secure to itself the advantages of distance and height; but not the less on that account does it stand out on the sky a grand object. The masses of its walls unsymmetrically pierced with sombre loopholes present an abrupt and naked appearance; but the monotony of their lines is picturesquely broken by the projection of over-

hanging turrets, by the corbels of the machicolated arches, and by the embrasures of the battlements.

A vast amount of civilisation still exists for him who recalls the past in the multitude of ruins which were the witnesses of bloody feudal divisions; and we must add to the system of isolated castles that often commanded the most deserted valleys, the apparatus of strength and defence of cities and towns—gates, ramparts, towers, citadels, &c., immense works which,

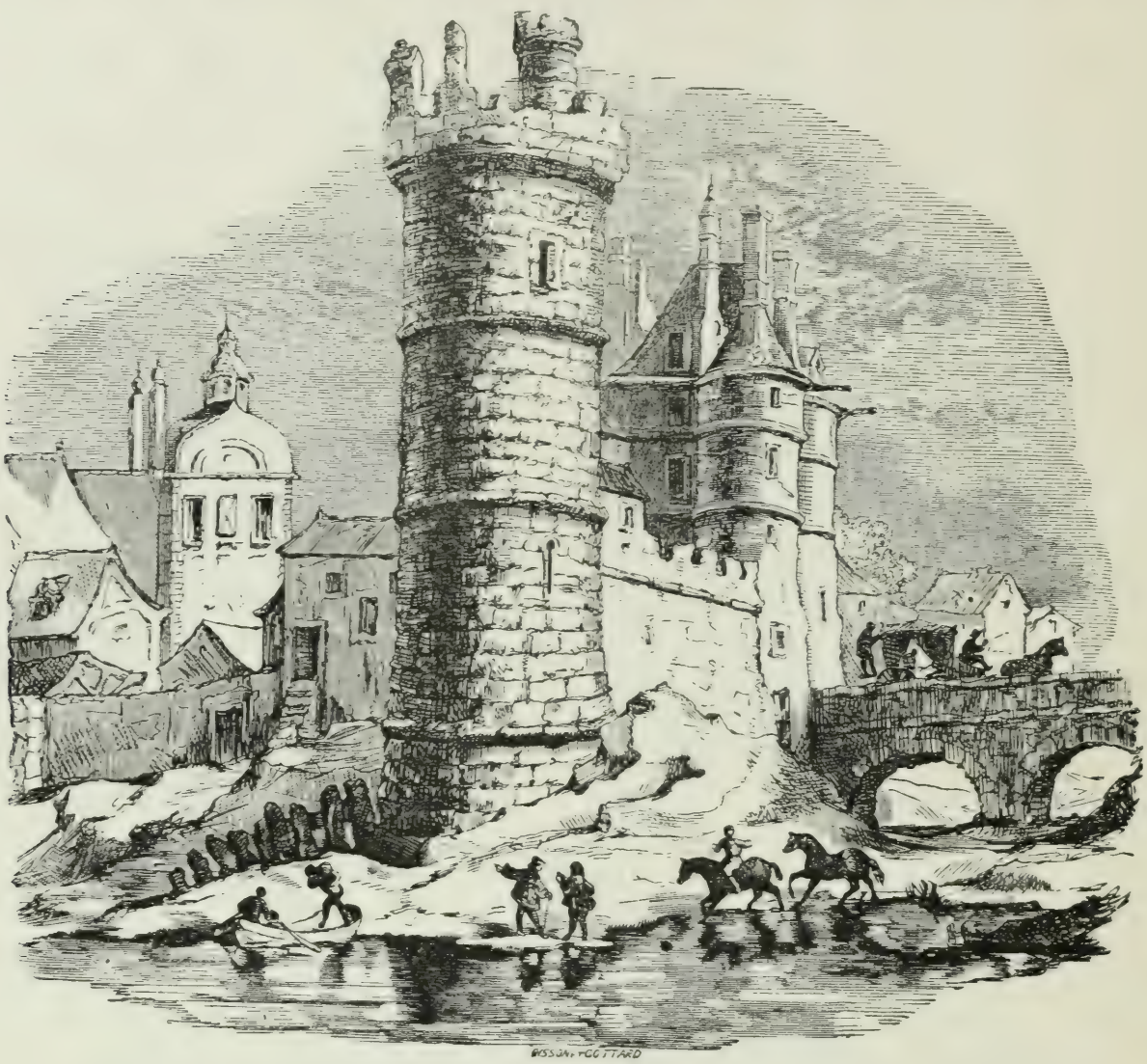


Fig. 270.—Tour de Nesle, which occupied the site of the Exchange on the banks of the Seine, Paris. (From an Engraving of the Seventeenth Century.)

although inspired solely by the genius of strife and dissension, did not fail nevertheless, in many instances, to combine harmony and variety of detail with the general grandeur of the whole.

We may cite, as examples of architecture purely feudal, the castles of Coucy (Fig. 268), Vincennes (Fig. 269), Pierrefonds, the old Louvre, the Bastille, the Tour de Nesle (Fig. 270), the Palais de Justice, Plessis-les-Tours, &c.; and as specimens of the fortified town in the Middle Ages,

Avignon and the city of Carcassonne. Let us add that Aigues-Mortes, in Provence; Narbonne, Thann (Haut-Rhin), Vendôme, Villeneuve-le-Roi, Moulins, Moret (Fig. 271), Provins (Fig. 272), also afford characteristic remains of ancient military architecture.

While the nobles, jealous and suspicious, sheltered themselves in the shadow of donjons built with many strategical contrivances and of substantial materials; while the large and small towns were surrounded with deep moats, high walls, impregnable towers, the most primitive simplicity presided over the construction of private dwellings. Stone hardly ever,

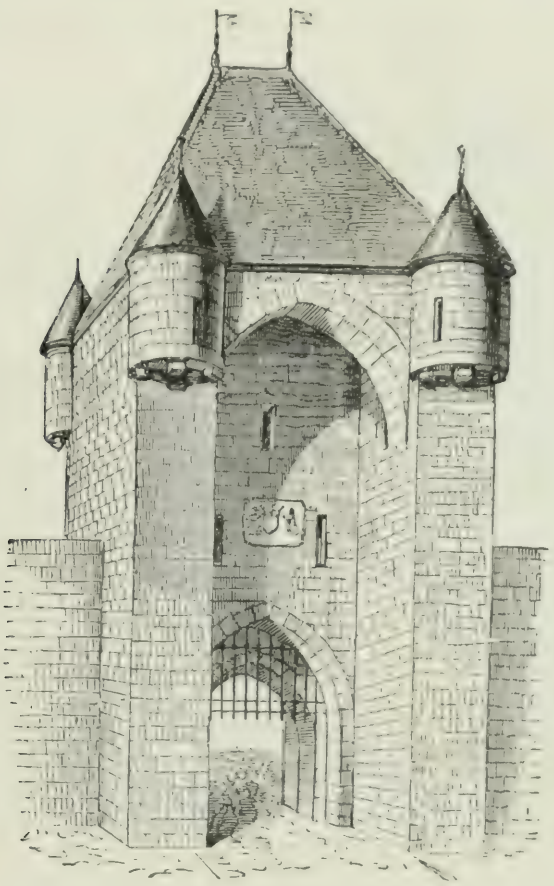


Fig. 271.—Gate of Moret. (Twelfth Century.)

and brick but seldom, figured among the materials employed. Sawed or squared timbers serving as ribs, mud or clay filling up the interstices, were all that was at first required for the erection of houses as small as they were comfortless, and following each other in irregular lines along the narrow streets. Corbels, it is true, began to be adorned with carvings and paintings, the façades with panes (glass) of different colours; but we must reach the last half of the fifteenth century before we see the resources of architecture applied to the erection and ornamentation of private houses. Moreover, faith was already growing weak; and no longer was it possible to direct all the resources of an entire province to the honour of the

Deity by the erection of a church; the use of gunpowder, by revolutionising the art of war, came to lessen, if it did not annihilate, the vast strength of walls; the decline of feudalism itself had commenced; and lastly, the enfranchisement of corporations gave rise to a perfectly new order of individuals who took their place in history. We must refer to this period the house of Jacques Cœur, Bourges; the Hotel de Sens, Paris (Fig. 273); the Palais de Justice, Rouen; and those town-halls in which the belfry was then considered as a sort of palladium, in whose shade the sacred rights of the community sheltered themselves. It is in our (French) northern towns—St. Quentin, Arras, Noyon; and in the ancient cities of Belgium—Brussels (Fig. 274), Louvain, Ypres, that these edifices assume the most sumptuous character.

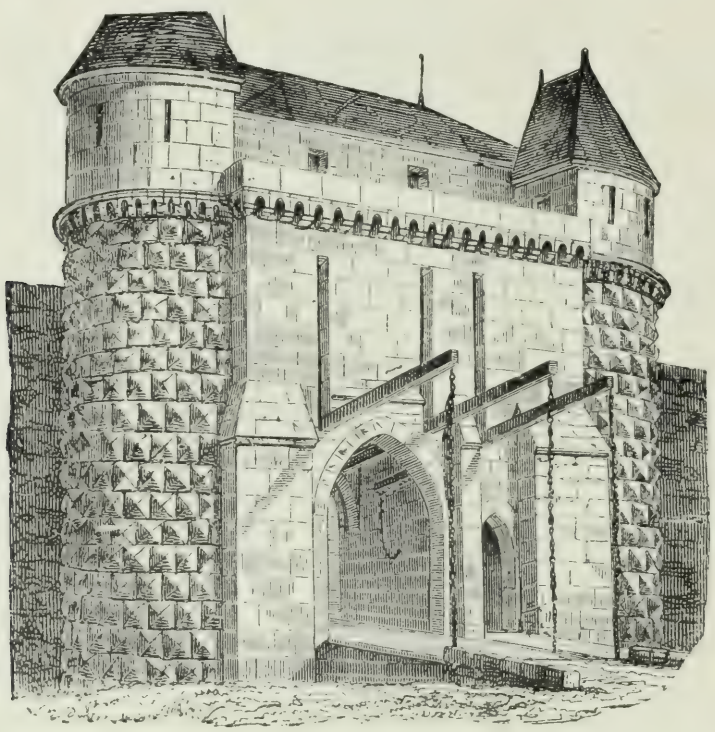


Fig. 272.—Gate of St. John, with Drawbridge, Provins. (Fourteenth Century.)

In Germany, where for a time it reigned almost exclusively, Gothic art established the cathedrals of Erfurt, of Cologne, Fribourg, and of Vienna; then it died away in the growth of the *Flamboyant* style. In England, after having left some magnificent examples of pure inspiration, it found its decline in the attenuated meagreness and the complicated ornamentation of the Perpendicular period. If it penetrated also into Spain, it was to contend with difficulty against the mighty Moorish school, which had too many imposing *chefs-d'œuvre* in the past to surrender without resistance the country of its former triumphs (Fig. 275). In Italy it clashed not only with the Latin and Byzantine schools, but also with a style that, just beginning to form itself, was soon to dispute with it the empire of taste,

and to dethrone it in that very land which had been its cradle. The cathedrals of Assisi, of Siena, of Milan, are the splendid works in which its influence triumphed over local traditions and over the *Renaissance* that was preparing to follow; yet we must not think that it succeeded even there in rendering itself absolutely the master, as it had done on the Rhenish or British territories. Sacrifices were made in its favour; but these sacrifices did not amount to an entire immolation.

When we use the word *Renaissance*, we seem to be speaking of a return to an age already gone by, of the resurrection of a period that had passed away. It is not strictly in this sense that the word must be understood in the present instance.

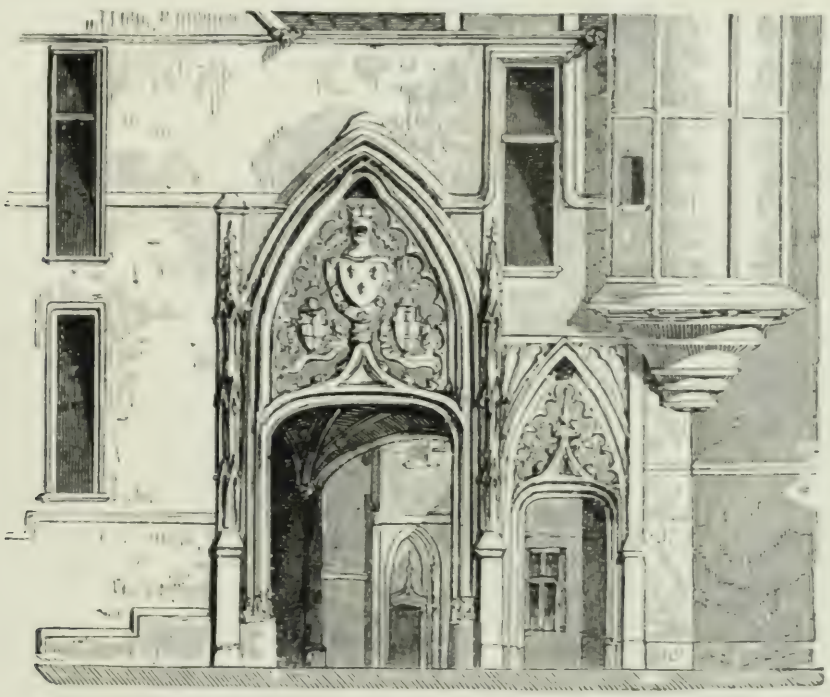


Fig. 273.—Doorways of the Hôtel de Sens, at Paris; the last remaining portion of the Hôtel Royal de Saint-Pol, built in the reign of Charles V. (Fourteenth Century.)

Inheriting from of old the artistic temperament of Greece, rather than spontaneously creating of herself any style, Italy, among all the nations of Europe, was the country which had most successfully resisted the profound darkness of barbarism, and the first on which the light of modern civilisation shone.

At the period of this new dawn of genius, Italy had only to ransack the ruins its first magnificence had bequeathed it to find among them examples it might follow; moreover, it was the time when the active rivalry of its republics caused all the treasures of ancient Greece to flow into it. But while it derived inspiration from these abundant manifestations of another age, it never entertained the idea of abandoning itself exclusively to a servile imitation; it had—and in this consists its chief title to glory—

while giving a peculiar direction to the revivals of the antique, the good sense to remain under the poetic influence of that simple and congenial art which had consoled the world during the whole continuance of that pro-

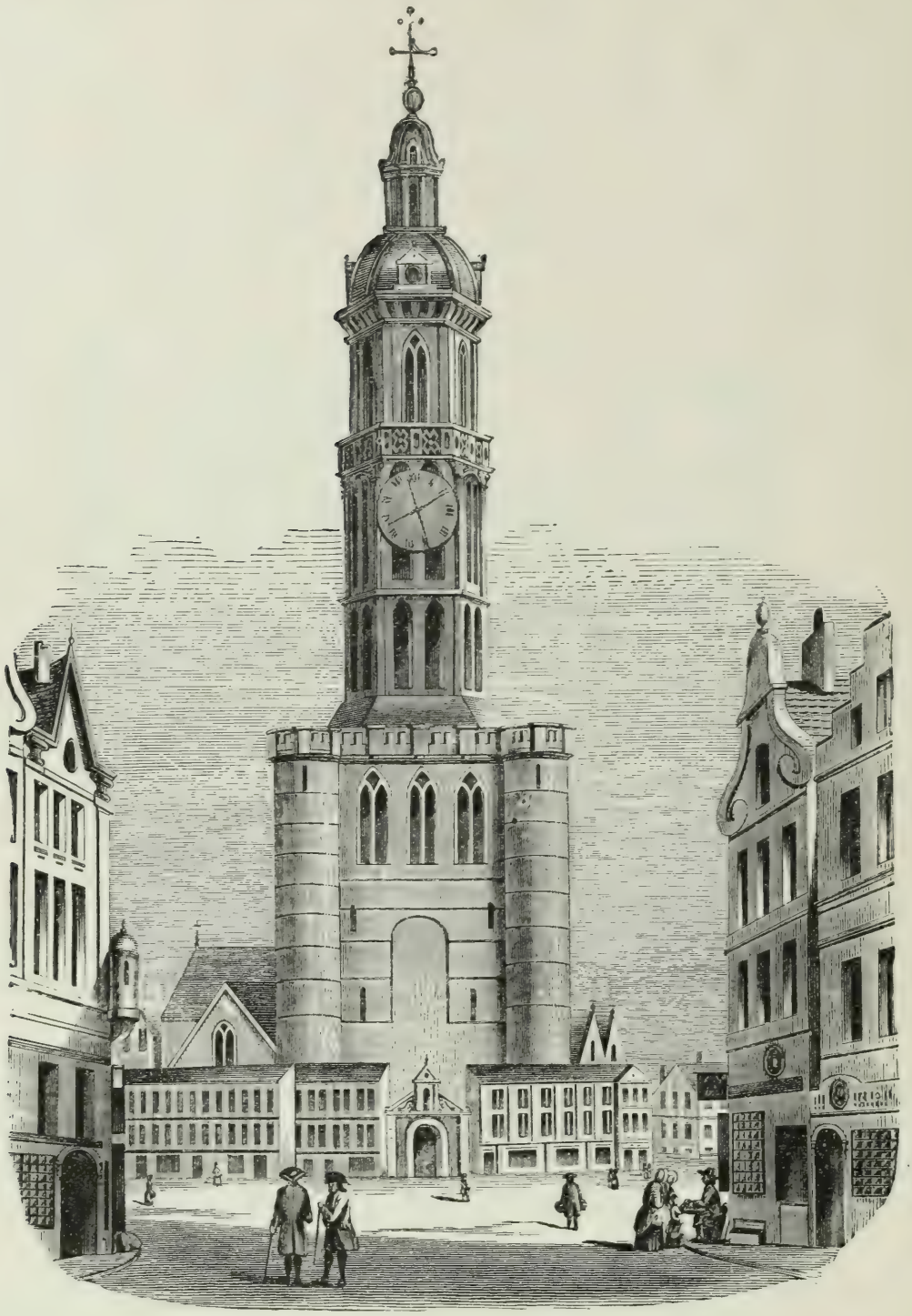


Fig. 274.—Belfry of Brussels (Fifteenth Century), from an engraving of the Seventeenth Century.

tracted infancy of a civilisation which was at last advancing with rapid strides towards perfect manhood.

From the twelfth century, Pisa gave an impetus to the art by building its Duomo, its Baptistery, its Leaning Tower, and the cloisters of its famous

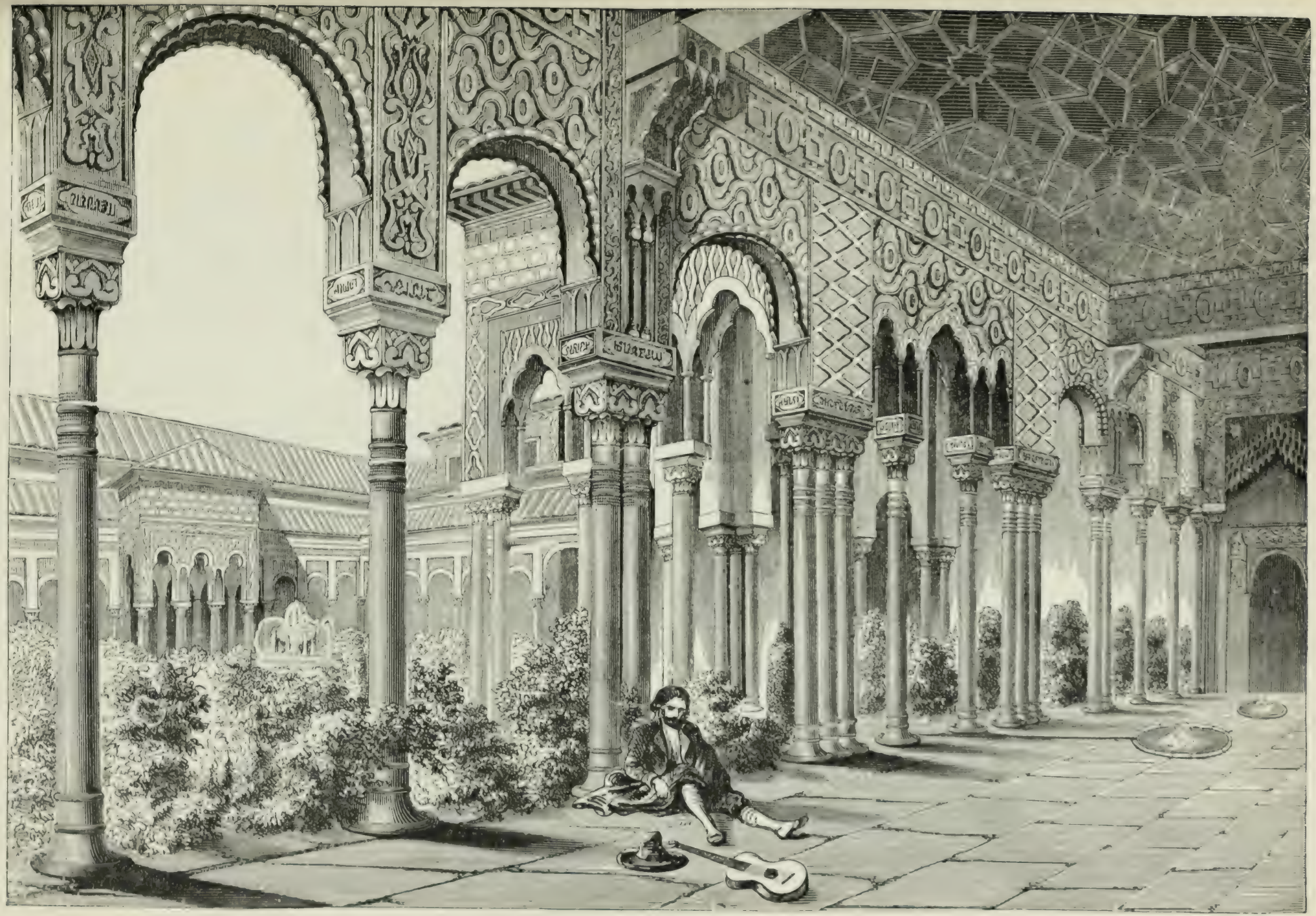


Fig. 275.—Interior of the Alhambra, at Granada.—(Thirteenth Century.)

Campo Santo; so many admirable works forming an era in the history of modern art, and in a brilliant manner opening the career on which so many distinguished men were to enter, rivalling each other in invention, in science, and in genius. In these monuments the union of Oriental taste with the traditions of ages gone by created an originality as grand as it was graceful. "It is," as M. A. Lefèvre points out, "the Antique without its nudity, the Byzantine without its heaviness, the fervour of the Western Gothic without its ghastliness" (*effroi*).

In 1294 the magistrates of Florence passed the following decree, charging the architect, Arnolfo di Cambio, to convert into a cathedral the church, till then of little importance, of Santa Maria de' Fiori:—"Forasmuch," they said, "as it is in the highest degree prudent for a people of illustrious origin to proceed in their affairs in such manner that their public works may cause their grandeur and wisdom to be acknowledged, the order is given to Arnolfo, master-architect of our town, to make plans for repairing the Church of Santa Maria with the greatest and most lavish magnificence, so that the skill and prudence of men may never invent, nor ever be able to undertake, anything more important or more beautiful."

Arnolfo applied himself to his task, and conceived a plan which the shortness of human life did not allow him to carry out; but Giotto succeeded him, and to Giotto succeeded Orcagna, and to Orcagna, Brunelleschi, who designed and almost completed that Duomo which Michel-Angelo said it would be difficult to equal and impossible to surpass.

Arnolfo, Giotto, Orcagna, Brunelleschi—does it not suffice to cite these great names for us to form an idea of the movement going on at this period? which was soon to produce Alberti, Bramante, Michel-Angelo, Jacopo della Porta, Baldassare Peruzzi, Antonio and Juliano da Sangallo, Giocondo, Vignola, Serlio, and even Raphael, who, when he liked, was a mighty architect as he was a marvellous painter. It was in Rome that these princes of the art congregated together, as the splendours of St. Peter's (Fig. 276), to mention only one of their grand creations, still attest; so, it is from this city that henceforward light and example are to come.

In the style which this masterly phalanx created, the Latin rounded arch regained all its ancient favour, and united itself to the ancient orders, which became intermingled, or, at any rate, superposed. The pointed arch was abandoned, but columns, capitals, and entablatures were endowed with a variety not much less effective than that of Gothic; the Grecian pediment reappeared, changing sometimes the upper lines of its triangle into a depressed semicircle; lastly, the cupola, that striking object which was the characteristic feature of the Byzantine style, became the dome, whose ample curve rivalled in the daring heights whereto it rose, the wonders of the Perpendicular Gothic.

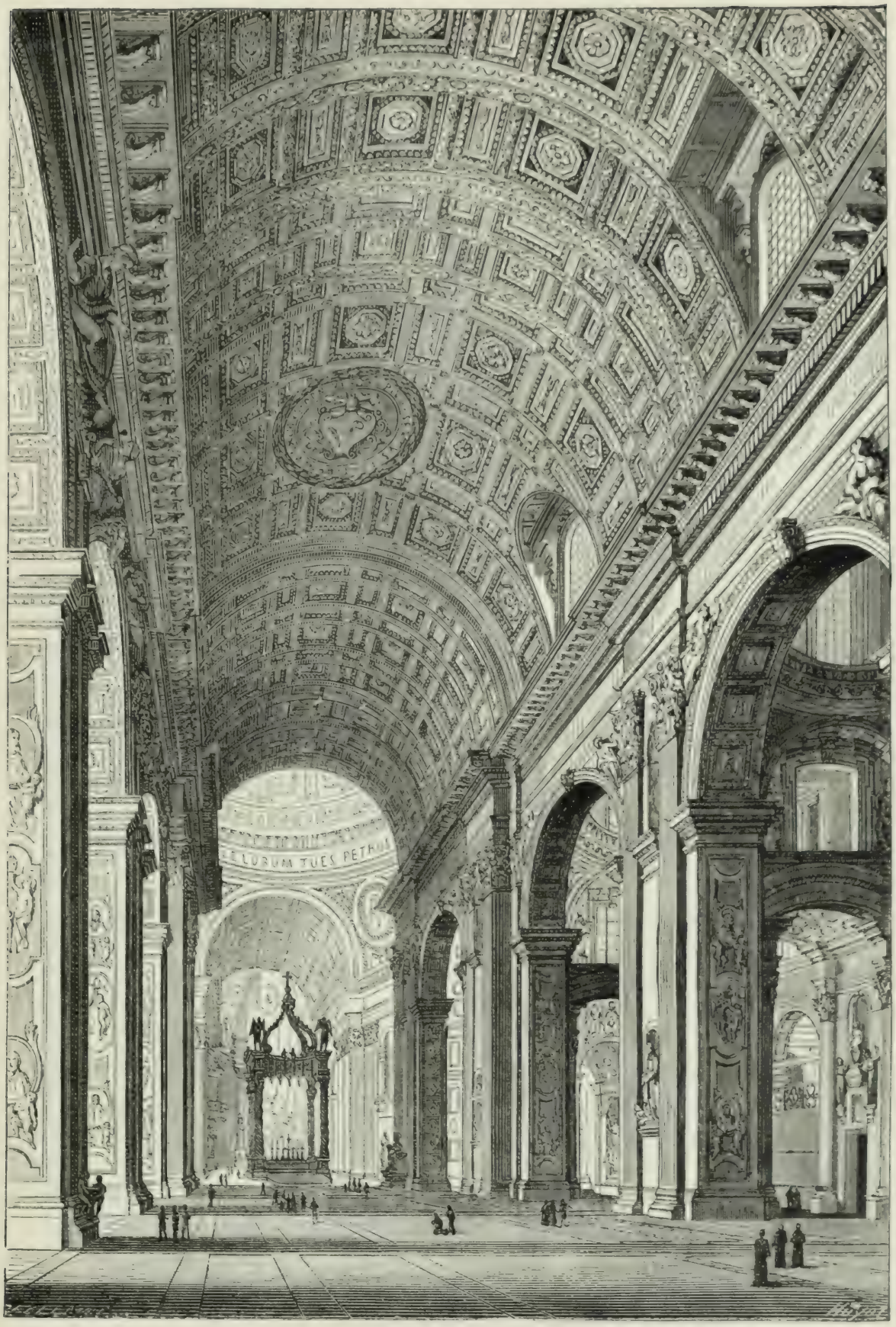


Fig. 276.—Interior of St. Peter's, Rome.

The Italian *Renaissance* was now accomplished, the Gothic age at an

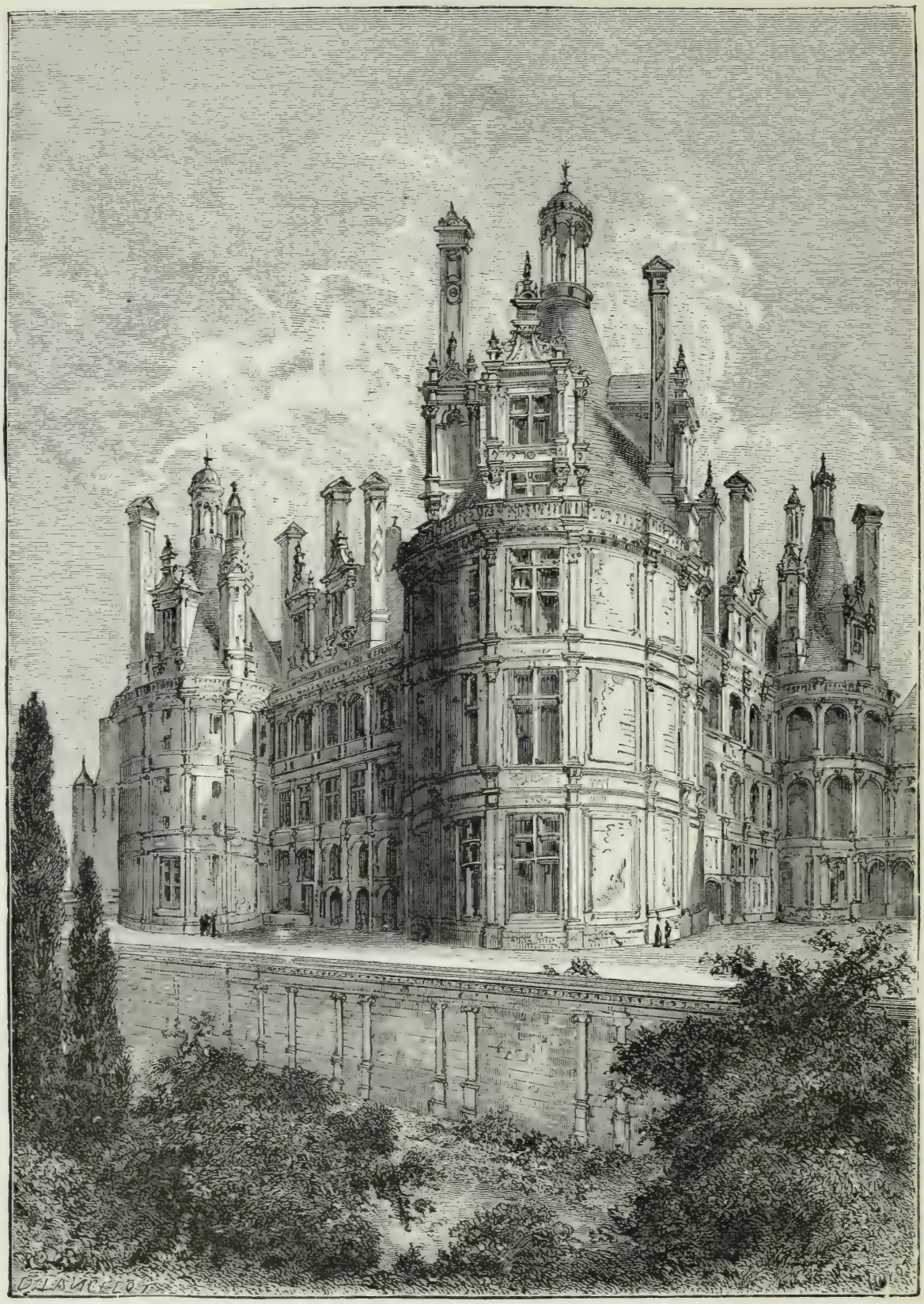


Fig. 277.—Château de Chambord, with its Ancient Moat. (Seventeenth Century.)

end. Rome and Florence sent in every direction their architects, who, as they travelled far from those capitals of the new style, were once more

subjected to certain territorial influences, but who knew how to make the tradition of which they were the apostles triumphant. It was then that France inaugurated in its turn a Renaissance peculiar to herself; it was then that, under the reign of Charles VIII., after his expedition into Italy, began, with the Château de Gaillon, a long succession of edifices, which in many cases yielded neither in richness nor in majesty to the works of the preceding period. Under Louis XII. rose the Château de Blois, and the Hôtel de la Cour des Comptes, Paris, a splendid building destroyed by fire in the eighteenth century. Under Francis I., Chambord (Fig. 277), Fontainebleau, Madrid (near Paris), magnificent royal whims, contended in elegance and grace with the châteaux of Nantouillet, Chenonceaux, and Azai-le-Rideau; and with the manor-house of Ango, near Dieppe—all sumptuous, lordly

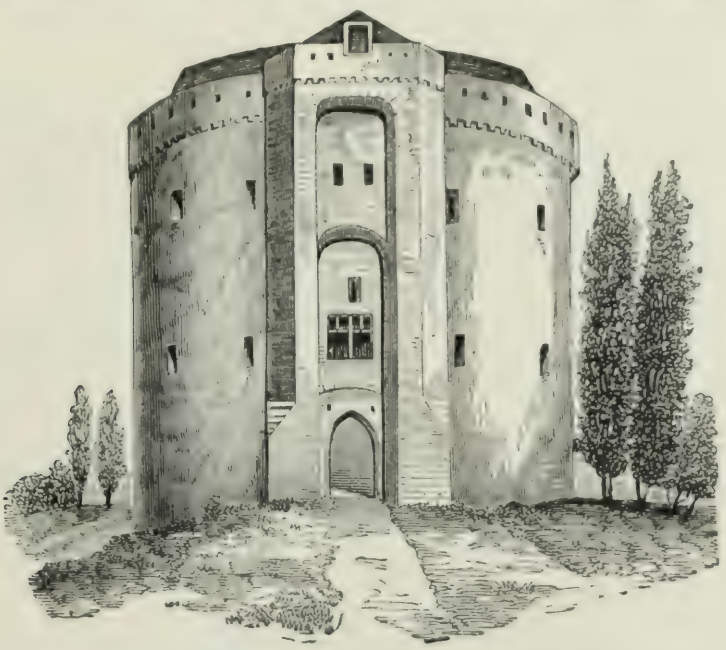
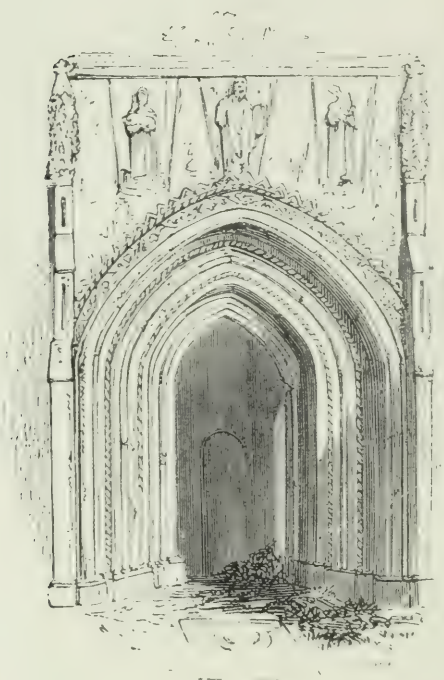


Fig. 278.—Porte de Hal, Brussels. (Fourteenth Century.)

mansions; the old Louvre, the palace of kings, the cradle of monarchy, was regenerated under the care of Pierre Lescot; the Hôtel de Ville, Paris, still bears witness to the varied talent of Domenico da Cortona, who, as M. Vaudoyer said of him, "justly understood that, in building for France, he should act in a perfectly different manner to that in which he would have acted in Italy." Under Henry II. and Charles XII. this activity continued, and the architects who sought their inspirations in Grecian and Roman antiquity, as much as in the *souvenirs* of the Italian Renaissance, delighted in loading all the elegant and graceful buildings with ornaments, with bas-reliefs, and with statues, which they seemed to carve in the stone, as delicately wrought as a piece of goldsmith's work. Philibert Delorme built for Diana of Poitiers the Château d'Anet, that architectural jewel whose portico, transported piece by piece at the time of the revolutionary disorders,

now decorates the court of the Ecole des Beaux-Arts; Jean Bullant built Ecouen for the Constable Anne de Montmorency; and the architect d'Anet undertook, by order of Catherine de Medicis, the construction of the Palace of the Tuileries.

We must not burden with details this summary of one of the most important branches of art. The history of architecture is among those vast domains which demand either a short epitome or a thoroughly deep investigation. The epitome alone being consistent with the plan of our work, we must confine ourselves to its limits; but we may, perhaps, be allowed to think that the too rapid pages thus devoted to the subject have inspired the reader with the desire of penetrating farther into a study which is capable of offering him so many agreeable surprises, so many rational delights.



PARCHMENT AND PAPER.

Parchment in Ancient Times.—Papyrus.—Preparation of Parchment and Vellum in the Middle Ages.—Sale of Parchment at the Fair of Lendit.—Privilege of the University of Paris in respect of the Sale and Purchase of Parchment.—Different Applications of Parchment.—Cotton Paper imported from China.—Order of the Emperor Frederick II. concerning Paper.—The Employment of Linen Paper dating from the Twelfth Century.—Ancient Water-Marks on Paper.—Paper Manufactories in France and other parts of Europe.

ALTHOUGH most authors who speak of parchment attribute the invention of it, on the testimony of Pliny, to Eumenes, King of Pergamus (doubtlessly from the etymology of the word by which it was designated, viz., *Pergamena*), it seems to be proved, according to Peignot, that the use of it is much more ancient, and that its origin is utterly lost. Certainly, in many passages of the Old Testament we find a Hebrew word, in Latin *volumen*, which can only be understood to mean a roll formed of prepared skin or of the leaves of papyrus, and it is consequently evident that the Jews, from the time of Moses, wrote the tables of the Law on rolls of parchment.

Herodotus says that the Ionians called books *diphthera* (διφθέρα, a prepared hide), because, at a time when the *biblos* (βιβλος, the inner bark of the papyrus) was scarce, they wrote on skins of goats or of sheep. Diodorus Siculus affirms that the ancient Persians wrote their annals on skins, and we must suppose that Pliny's assertion refers only to some improvements the King of Pergamus had made in the art of preparing a material that could supply the place of papyrus, which Ptolemy Epiphanes would no longer allow to leave Egypt. The absolute deficiency of papyrus raised into activity the fabrication of parchment, and soon so large a quantity was seen to flow into Pergamus that this town was considered as the cradle of the new trade, already so flourishing. There were then books of two kinds, the one in rolls composed of many leaves sewed together, on one side of which only was there writing; the others, square-shaped, were written upon both sides. The

grammarian Crates, ambassador of Eumenes at Rome, passed as the inventor of vellum.

Ordinary parchment is the skin of a goat, sheep, or lamb, prepared in lime, dressed, scraped, and rendered smooth by pumice-stone. Its principal qualities are whiteness, thinness, and stiffness; but the work of the currier must have been formerly very imperfect, for Hildebert, Archbishop of Tours in the eleventh century, tells us that the writer, before beginning his occupation, "had to clear away from the parchment, with the aid of a razor, the remains of fat and other gross impurities, and then with pumice-stone to make the hair and tendons disappear:" this almost amounts to affirming that the scribes bought the hide undressed, and, by an elaborate preparation, made it fit for proper use. Virgin parchment, which in its grain and colour resembles vellum, was made of the skins of lambs and of goats prematurely born. Vellum, more polished, whiter, more transparent, is made of the hide of the calf.

It is probable that with the Romans, papyrus, considering the facility they had of procuring it for themselves, was more frequently used than parchment, which, at first, was rare and costly. But parchment, more durable and of greater resistance than papyrus, was reserved for the transcription of the most important works. Cicero, who had many books on parchment in his magnificent library, said that he had seen the "Iliad" copied on a scroll of *pergamena* which went into a nutshell. Many of Martial's epigrams prove to us that in the time of this poet such books were still more numerous. Unfortunately, there remains to us no writing on parchment dating from this distant period. The Virgil in the Vatican, and the Terence at Florence, are of the fourth and fifth century of our era. Admitting that time destroys all, and also that the work of the rude tribes on many occasions assisted this natural cause of destruction, we must not forget that at certain periods, to supply the place of new parchment when it was scarce, a plan had been devised of making the parchment rolls which had already been used for manuscripts serve again for a similar purpose, either by scraping and rubbing them with pumice-stone, or by boiling them in water or soaking in lime. There is no doubt but the scarceness and dearness of parchment was the cause of the loss of very many excellent works. Muratori cites, for example, a manuscript of the Ambrosian Library, of which the writing, dating from eight or nine centuries back, had been substituted for another of more than a thousand years old; and Maffei informs us that the employment of ancient parchment scraped and washed became so general, in the fourteenth and fifteenth centuries, throughout Germany, that the Emperors put a stop to this dangerous abuse by issuing an order to the notaries to use nothing but parchment "quite new."



Fig. 279.—Miniature of the Ninth Century, representing an Evangelist who is transcribing the Sacred Text on Parchment with the Calamus.
(Bibl. de Bourgogne, Brussels.)

Generally, the quality of parchment serves to determine the date of its manufacture. The vellum of manuscripts till the middle of the eleventh century is very white and thin; the parchment of the twelfth century is thick, rough, and brownish, which often shows it has been scraped or washed. The greater number of fine manuscripts are on virgin parchment, which from its nature was suited to the delicacies of caligraphy and illumination. Moreover, we see from a statute of the University of Paris, dated 1291, that the parchment trade had attained at that period to considerable development; so, as a protection against the frauds and deceptions which

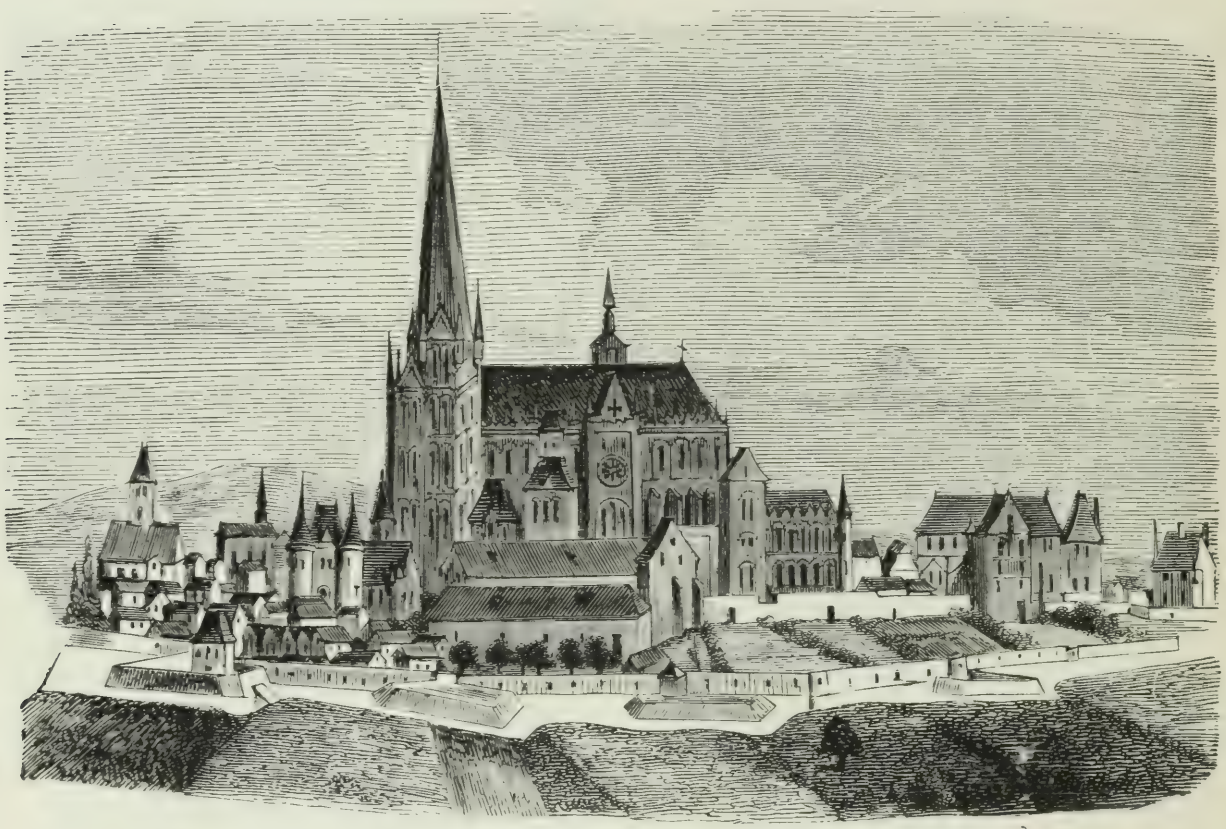


Fig. 280.—View of the Ancient Abbey of St. Denis and its Dependencies.

might result from the great competition of traders in it, and to ensure a good article being furnished to students and artists, a special privilege was granted to the university, which, in the person of its rector, had not only the right of inspection, but also the refusal of all parchment bought in Paris, no matter whence it had come. Besides which, at the fair of Lendit, which was held every year at Saint-Denis, on the domains of the abbey (Fig. 280), and at the fair of Saint-Lazare, the rector likewise caused the parchment brought to them to be examined, and the merchants of Paris could not purchase any till the king's agents, those of the Bishop of Paris, and the masters and scholars of the university, had provided themselves with what they required (Fig

281). Let us add that the rector was paid a duty on all parchment sold, and the result of this tax was the only source of income attached to the rectorship in the seventeenth century.

Although white parchment seems to be the best suited for writing, the Middle Ages, following the example of antiquity, gave to the material various tints, especially purple and yellow. The purple was chiefly intended to receive characters of gold or silver. The Emperor Maximian, the younger, inherited from his mother the works of Homer inscribed in gold on purple vellum; and parchment tinted in this way was, during the first centuries, one of the prerogatives reserved for princes and the great digni-



Fig. 281.—Seal of the University of Paris (Fourteenth Century), after one of the Dies preserved in the Collection of Medals in the National Library, Paris.

taries of the Church. It is remarkable that the barbarism of the seventh and eighth centuries did not diminish the favour in which these luxurious manuscripts were held. Little by little, however, the custom (of writing the entire work in gold or colours) dwindled away. Scribes began by colouring a few pages only in each volume, then some margins or frontispieces; and lastly this decoration was restricted to the heads of chapters, or to words to which great prominence was to be given, or to capital letters. The *rubricatores* (literally, writers in red), workmen who performed this operation, came in time to be mere painters of letters or *rubrics* (so called because they were originally painted red), of whose assistance, however, the first printers

availed themselves to *rubric* or colour the initials of missals, Bibles, and law books.

The dimensions or sizes of our books at the present day have their origin in the sizes of the parchment in olden times. The entire skin of the animal, cut square and folded in two, represented the "folio," which, moreover, varied in length and breadth; and we have every reason to suppose that paper, from the day it was invented, followed the ordinary sizes of the folded parchment.

As to the dimensions of the parchment employed for diplomas, they varied according to the time, the brevity of the matter, or the nature of its



Fig. 282.—Seal of the "Roi de la Basoche." (This title was suppressed, with all its prerogatives, by Henry III.)

employment. Among the ancients, who wrote only on one side of the parchment, the skins were cut in bands joined together so as to form *volumes* or rolls, which were unrolled as their contents were read. This custom was preserved for public and judicial acts for a long time after the invention of the square book (*codex*) had caused the *opisthographic* writing to be adopted, by which is to be understood writing on both sides of the page. In principle, only the final formulæ, or the signatures, were written on the back of the document. By degrees people adopted the practice of writing on the back as well as the front of the page; but it was not till the sixteenth century that this custom became general.

Judicial acts, composed sometimes of many skins sewed together, came in time to form rolls of twenty feet in length, to such extreme proportions did they reach, though at first they were so small in size that their limited dimensions are truly incredible; for in 1233 and 1252 we find contracts of sales of two inches long by five inches wide, and in 1258 a will written on a piece of parchment of two inches by three and a half. It was by way of compensating for the great cost of parchment that opisthographic writing was adopted and rolls were put aside; and the name alone remains as applied to the *rolls* of procedure. The size that leaves should assume was also fixed, according to the different uses for which they were

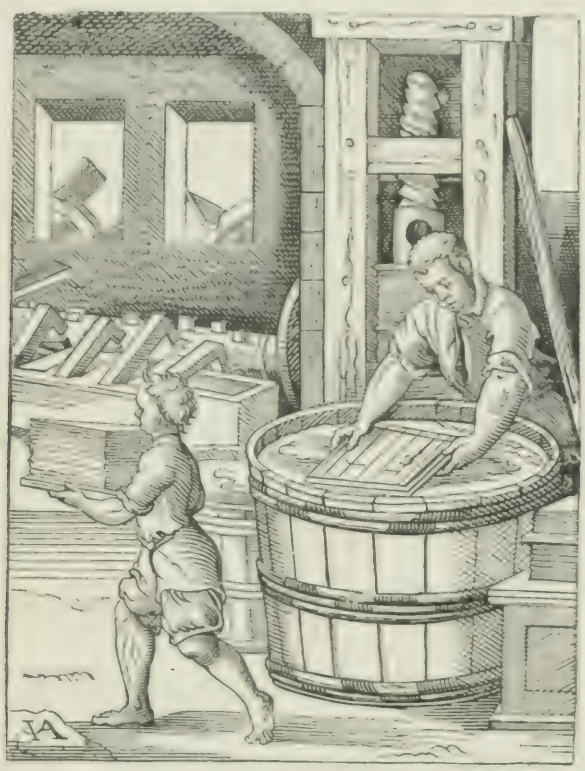


Fig. 283.—The Paper-Maker, drawn and engraved in the Sixteenth Century by J. Amman.

intended. For instance, the leaves of parliamentary documents were nine inches and a half long by seven and a half wide; those of the council, ten by eight; those of finance and of private contracts, twelve and a half by nine and a half; letters of pardon, under the king's hand, were to be on entire skins squared, two feet two inches by one foot eight inches in diameter.

But while the use of parchment was still strictly employed in the chancellor's officers and the tribunals, where the *basoche* (a brotherhood of lawyers of all grades) considered it as one of their most lucrative privileges (Fig. 282), it had for a long while ceased to be used anywhere else. Paper, after having during many centuries competed with parchment, at last almost entirely replaced it (Fig. 283); for if less durable, it had the great

advantage of costing much less. Formerly nothing but the ancient papyrus of Egypt was known, and it was made use of concurrently with parchment till there was brought into Europe, towards the tenth century, cotton paper, which is generally believed to be a Chinese invention, and which was at first called *Grecian parchment*, because the Venetians, who introduced it into the West, had found it in use in Greece.



Fig. 284.—Water-Marks on Paper, from the Fourteenth to the Fifteenth Century.

Actually, this paper was at first of a very inferior quality, coarse, spongy, dull, and subject to the attacks of damp and worms; so much so that the Emperor Frederick II. issued, in 1221, an order declaring null and void all documents written on it, and fixing the term at two years by which all were to be transcribed on parchment.

The knowledge of the progress of manufacturing paper from cotton soon

led to the fabrication of paper from linen or rags. It is, however, impossible to say when and where it was accomplished, the assertions and the testimonies on this point are so contradictory. Some think that the paper was brought from the East by the Spanish Saracens; others say it came from China; these affirm it has been employed since the tenth century; those, that we can only find specimens of it as far back as the reign of St. Louis.

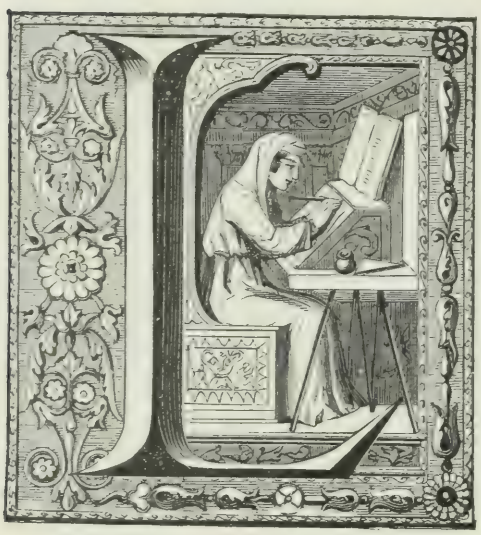
At any rate, the most ancient writing on paper made of rags known at the present day is a letter from Joinville to Louis X., dated 1315; we may, moreover, mention with certainty, as written on linen paper, an inventory of goods belonging to a certain Prior Henry, who died in 1340, which is preserved at Canterbury, and many authentic writings, dated back as far as 1335, preserved in the British Museum. The first paper-manufactory established in England was, it is said, at Hertford, which dates only from 1588; but important paper-manufactories existed in France from the reign of Philippe de Valois, that is, from the middle of the fourteenth century, particularly at Essonne and at Troyes. The paper which came from these manufactories bore generally, in the paper itself, different marks (Fig. 284) called water-marks, such as a bull's head, a cross, a serpent, a star, a crown, &c., according to the quality or destination of the paper. Many other countries in Europe had also flourishing paper-manufactories in the fourteenth century. From this period we find, indeed, a large number of documents written on paper made of rags, the use of which thus preceded by about a century the invention of printing.



Fig. 285.—Banner of the Paper-Makers of Paris.

MANUSCRIPTS.

Manuscripts in Olden Times.—Their Form.—Materials of which they were composed.—Their Destruction by the Goths.—Rare at the Beginning of the Middle Ages.—The Catholic Church preserved and multiplied them.—Copyists.—Transcription of Diplomas.—Corporation of Scribes and Booksellers.—Palæography.—Greek Writings.—Uncial and Cursive Manuscripts.—Sclavonic Writings.—Latin Writers.—Tironian Shorthand.—Lombardic Characters.—Diplomatic.—Capetian.—Ludovicinian.—Gothic.—Runic.—Visigothic.—Anglo-Saxon.—Irish.



LET the reader refer to the chapters on Parchment and Binding, and he will find a few remarks on the purely material part of manuscripts; we may, then, here treat this question very summarily; and for that purpose we shall avail ourselves of the remarkable work of J. J. Champollion-Figeac.

When writing was once invented, and had passed into general use in civilised society, the choice of substances suited for its reception, and to fix it in a durable manner, was very diversified, although depending on the nature of the text to be written.

People wrote on stone, on metals, on the bark and leaves of many kinds of trees, on dried or baked clay, on wood, on ivory, wax, linen, the hides of quadrupeds, on parchment, the best of these preparations; on papyrus, which is the inner bark of a reed growing in the Nile; then on paper made of cotton; and lastly, on paper made from hemp and flax, called rag paper. The Roman world had adopted the use of papyrus, which was a very important branch of commerce at Alexandria. We find proof of this in the writers of antiquity: St. Jerome bears witness to it as far as regards the fifth century of our era. The Latin and Greek emperors gave their diplomas on papyrus. Popes traced their most ancient bulls upon it. The charters of the kings of France of the first race were also issued on papyrus. From the eighth century parchment contended with

papyrus; a little later cotton paper also became its competitor, and the eleventh century is generally fixed on as the period when papyrus was entirely superseded by the new materials appropriated to the preservation of writing.

For writing on papyrus the brush or reed was employed, with inks of different colours; black ink was, however, most generally used. There grew on the banks of the Nile, at the time when the reed furnished papyrus, another sort of reed, stiffer and also more flexible, and admirably suited for the manufacture of the *calamus*, an instrument supplying the place of the pen, which was not adopted before the eighth century.

The size of manuscripts was in no way subject to fixed rules, there were volumes of all dimensions; the most ancient on parchment are, in general, longer than they are broad, or else are square; the writing rests on a line traced with the dry point of the *calamus*, and afterwards with black-lead; the parts making up a volume are composed of an indeterminate number of leaves; a word or a figure, placed at the bottom of the last page of each part and at the end of the volume, serves as a *catchword* from one fasciculus to another.

The emperors of Constantinople used to sign in red ink the acts of their sovereignty; their first secretary was the guardian of the vase containing the cinnabar (vermilion), which the emperor alone might use. Some diplomas of the kings of France of the second race are signed in the same manner. In valuable manuscripts, great use was made of golden ink, especially when the parchment was dyed purple; but red ink was almost always employed for capital letters or for the titles of books, and for a long time after the invention of printing the volumes still had the *rubrics* (*ruber*, red) painted or beautifully executed with the pen.

The greater number of rich manuscripts, even when they contained the text of some ancient secular author, were destined to be presented to the treasuries of churches and abbeys, and these offerings were not made without great display: the book, whatever its contents might be, was placed on the altar, and a solemn mass was celebrated on the occasion; moreover, an inscription at the end of the work mentioned the homage which had been paid for it to God and to the saints in paradise.

We must not forget that in this time of almost universal ignorance, the Church was the only depository of literature and science; she sought after those heathen authors who could instruct her in eloquence that might be employed in advancing the faith, almost as much as she sought for sacred books; it was not rare even to see Christian zeal exalting itself so far as to find prophets of the Messiah in writers very anterior to the doctrines of Christ. Thus the best Greek and Latin manuscripts of profane authors

are the work of monks, as were the Bibles and the writings of the Fathers of the Church. The rules of the most ancient brotherhoods recommended the monks who could write and who wished to please God to re-copy the manuscripts, and those who were illiterate to learn to bind them. "The work of the copyist," said the learned Alcuin to his contemporaries, "is a meritorious work, which is profitable to the soul, while the work of the ploughman is profitable only to the belly."

At all periods of history we find mention made of certain celebrated manuscripts. We will not go so far back as the Greek traditions relating to the works of Homer, of which some copies were ornamented with a richness that has, probably, never been surpassed. In the fifth century St. Jerome possessed twenty-five parts of the works of Origen, which Pamphilus the Martyr had copied with his own hand. St. Ambrose, St. Fulgentius, Hincmar, Archbishop of Rheims, men as learned as they were pious, applied themselves to reproducing with their own hands the best ancient texts. A copyist by profession was called *scriba, scriptor;* the place in which they generally worked was called *scriptorium.* The capitularies against bad copyists were frequently renewed. "We ordain that no scribe write incorrectly," we find in the collection of Baluze. We read in the same collection, in 789, "There shall be good Catholic texts in all monasteries, so that prayers shall not be made to God in faulty language." In 805, "If the Gospels, the Psalter, or the Missal are to be copied, only careful middle-aged men are to be employed; verbal errors may otherwise be introduced into the faith." There were, moreover, *correctors* who rectified the work of the copyists, and attested the work, on the volumes, by the words *contuli, emendavi* ("I have collated, I have revised"). A copy of Origen's works has been mentioned, corrected by the hand of Charlemagne himself, to whom is also attributed the introduction of full-stops and commas.

The same care presided over the preparation of royal charters and diplomas; the referendaries or chancellors drew them up and superintended their despatch; the principal officers of the crown intervened, as guarantors or witnesses to them, and these acts were read publicly before they were signed and sealed. Notaries and witnesses guaranteed the authenticity of private charters.

As long as printing did not exist in France, the corporation of scribes, copyists of charters, and copyists of manuscripts, which counted among them booksellers, was very numerous and very influential, since it was composed of graduates of the university that patronised them and placed them among the number of its indispensable agents. He who desired to become a bookseller had to give proof of his instruction and of his ability;

he was obliged to take an oath "not to commit any deception, fraud, or evil thing which might damage or prejudice the university, its scholars and frequenters, nor to rob or speak ill of them." Besides which he wa compelled to deposit a sum of fifty francs (*livres parisis*) as caution-money.

The rules imposed on scribes and on booksellers were always very strict, and this severity was only too justly occasioned by the abuses that existed, and by the scandalous disorder of the people who exercised these professions. In the year 1324 the university published this order:—"There will be admitted only people of good conduct and morals, sufficiently acquainted with the book trade, and previously approved by the university. The bookseller may not take a clerk into his service till that clerk has sworn, before the university, to exercise his profession according to the ordinances. The bookseller must give to the university a list of the works which he sells; he must not refuse to let a manuscript to whomsoever may wish to make a copy of it, on payment of the indemnity fixed by the university. He is forbidden to let out books that have not been corrected, and those students who find an incorrect copy are requested to denounce it publicly to the rector, so that the bookseller who has let it out may be punished, and that the copy may be corrected by *scholares* (learned men or scholars). There shall be every year four commissioners chosen to fix the price of books. One bookseller shall not sell a work to another bookseller before he has exposed the work for sale during four days. In any case the seller is obliged to register the name of the purchaser, to describe him, and to state the price for which the book was sold."

From century to century this legislation underwent variations, according to the ideas of the times; and when the printing-press came, in the middle of the fifteenth century, to change the face of the world, the corporation of *scribes* rose at first against the new art which was to ruin them. "But at last," says Champollion-Figeac, "they submitted, and temporary measures were recommended to the public authorities for the defence of an ancient order of things which could not long resist the new."

Now let us go back to the first centuries of the Middle Ages, to resume the question from a palæographic point of view.

The languages and literature of modern Europe are all Greek or Latin, Slavonic or Gothic; these four great families of peoples and of languages have existed in spite of the vicissitudes of politics. Such is the basis whereon must be found all the researches by which we are to establish the origin and nature of the writing peculiar to each literature.

The Greeks of Constantinople taught writing to the Slavonic race, and with it the Christian faith. The most ancient Greek writing (we speak of the Christian era only) was the *capital* writing, regular and well-propor-

tioned; as it became general it was simplified more and more. After this sort of writing, examples of which are found only on stone or bronze, we come to the writing called, although we do not know why, *uncial*, which was the first step towards the Greek *cursive* (flowing).

Uncial writing was employed, in Greek manuscripts, up to the ninth century; we may observe the transition from the *uncial* to the *half-uncial*, and from the *half-uncial* to the *minuscule*. In the tenth century manuscripts in minuscule became very abundant—the tachygraphers, or partisans of quick writing, gained the day; the caligraphers desired to follow their example. These employed a great deal of time in painting the initials of running letters: the new method, which produced more in the same space of time, easily got into favour; the caligraphers abandoned the uncial and adopted the minuscule characters connected together, which combined good forms with greater facility of execution. Thenceforward, the uncial was no longer employed except for the titles or headings of books.

Among the fine specimens of this epoch which have been preserved, we may mention, in the National Library of Paris, a Book of the Gospels, called Cardinal Mazarin's, and the Commentaries of Gregory Nazianzus; at the Laurentian Library, Florence, are a Plutarch and a Book of the Gospels, written with gold in large and massive minuscule cursive characters; and lastly, a book of ecclesiastical offices, belonging also to the National Library in Paris; it bears this superscription in Greek:—"Pray for Euthymus, a poor monk, priest of the monastery of St. Lazare. This volume was finished in the month of May, Convocation S, in the year 6515," a date which, according to the computation of the Greek Church, corresponds to the month of May of the year 1007 of the Christian era.

To the twelfth century is assigned the beautiful Greek manuscript which was afterwards given to Louis XIV. by Chrysanthes Noras, Patriarch of Jerusalem; to the thirteenth century belongs another manuscript, in very small cursive letters, ornamented with portraits, presented by the Emperor Palæologos to St. Louis. It was only in the fourteenth century that manuscripts half Latin and half Greek appeared. Lastly came Ange Végèce, of Corfu, who towards the middle of the fifteenth century made for himself so great a reputation as a Greek caligrapher.

The Greek alphabet, when it penetrated into the countries of the north with the Christian religion and civilisation, underwent important modifications. On the right bank of the Danube, in ancient Mœsia, Ulphilas, the descendant of a Cappadocian family formerly taken prisoner by the Goths, invented, in the fourth century, the alphabet bearing, on that account, the name of *Mœso-Gothic*, and which is of Greek origin, with a mixture of Latin characters and other peculiar signs. This writing is

heavy, without being elegant; differing, as if by an instinct of nationality, from the types which it imitates. The Mœso-Gothic manuscripts are, however, very rare, only two or three being known.

The Slavonic writing, which is also a daughter of Greece, has a history nearly similar to that of the Mœso-Gothic. When the people of this family were converted to Christianity, they were brought over to it by Greek Christians, and the Patriarch Cyril, in the ninth century, became their teacher; he taught them how to write (which they never knew till then), and it was the Greek alphabet they adopted, adding to it, however, a few new signs, so that they might be able to express the sounds peculiar to their language. Slavonic manuscripts are positively numerous in public libraries. We find them in Paris, Bologna, and Rome, but above all in Germany, and in the country under the dominion of the Muscovite. One of the most celebrated is that belonging to the town of Rheims, and which is known by the name of "Texte du Sacre," because a tradition (an erroneous one, however) asserts that the kings of France, at the time of their coronation at Rheims, took the oaths on this book, which was said to be written by the hand of St. Procopius. The Slavonic manuscripts in general recommend themselves less by the elegance of their execution than by the richness of their bindings.

The actual Russian alphabet is but an abridgement of the alphabet called the *Cyrilian*, reduced to forty-two signs by the Emperor Peter I.; so that the Slavonic nations knew two *Cyrilian* alphabets, the ancient Slavonic for the liturgical writings, and the modern Slavonic, or Russian, in general use. Of the first no manuscripts exist earlier than the eleventh century of our era.

The manuscripts of the Latins are, without doubt, more numerous and more varied, because the Latin Church is more extensive, and because Roman civilisation spread itself over a larger number of European provinces. At the head of the manuscripts of the Latin writing is placed a fragment of papyrus, found in Egypt, on which is inscribed an imperial edict for the annulment of a sale of property, agreed upon in consequence of some violence committed by a certain man named Isidore; the date of this document has been fixed as the third century. For the fourth century we have the "Virgil," with miniatures, which we mention elsewhere (MINIATURES OF MANUSCRIPTS), and a "Terence," both belonging to the Vatican Library, and both written in capital letters; in the latter, however, they are irregular, and called, on that account, *rustic capitals*.

To the same period we must refer the "Treatise on the Republic," by Cicero, which has but lately been found in a volume from which the previous writing had been effaced, as was often the case (see PARCHMENT

AND PAPER), in order to make room for the new writing. For the fifth century we have a second "Virgil," with miniatures, which passed from the library of the Abbey of St. Denis into that of the Vatican. The Prudentius, which the National Library of Paris still possesses, is a very fine manuscript of the sixth century, written in quaint but elegant rustic capitals.

Two other kinds of writing were, at the same period, in use among the Latins; this same rustic capital, ceasing to be rectangular, and rounded in its principal strokes, became the uncial; and for that very reason being much more expeditious, was reserved especially for the copying of works; whilst the cursive, although sometimes employed for manuscripts, was used chiefly in letter-writing. Of the first of these two writings, the uncial, we have two fine specimens of the sixth century in the "Sermons" of St. Augustine, on papyrus (Fig. 287), and in a Psalter of St. Germain-des-Prés, written in letters of silver on purple vellum, both of which now belong to the National Library, Paris.

In the same century, we find a kind of writing called *half-uncial*, which became more and more expeditious by the change made in certain of its forms. There was then also a Gallican uncial, the form of which we can see in the manuscript said to be by St. Prosper (National Library, Paris); and an uncial of Italy, among which figure the Bible of Mont-Amiati, at Florence; the palimpsest* Homilies of the Vatican, and the admirable Book of the Gospels at Notre-Dame, Paris (Fig. 288).

The most ancient style of cursive writing, employed in charts and diplomas, is to be seen in the deeds known by the name of *charters of Ravenna*, from the name of the town in which they were first discovered. We may consider as analogous to these the writing of the Acts of our early kings, very difficult to read on account of the exaggerated manner in which the thin strokes join the letters together, and by the indefinite forms of the up and down strokes. We give a fragment (Fig. 289) taken from an original chart, on parchment, of Childebert III. We see what the same writing had become in 784 by Fig. 290, copied from an original capitulary of Charlemagne.

To the same period belongs the employment, in ordinary use among chancellors and notaries, of a writing completely tachygraphic; it is composed of ciphers, one of which took the place of a syllable or a word. This writing was called *Tironian*, because the invention of it is attributed to Tiro, Cicero's freed-man, who made use of it in tachygraphing, or, as we should say now, stenographing the speeches of the illustrious orator.

* A palimpsest is a parchment used for the second time, the old writing being more or less visible under the new.—A.

Fig. 291 is taken from a psalter of the eighth century, of which the text is transcribed with the tachygraphic characters of that period.

The name of *Visigothic* is given to the writing of manuscripts executed in the south of France and in Spain during the rule of the Goths and the Visigoths; this writing, still rather Roman, is generally round and embellished with fanciful strokes, which render it agreeable to the eye.

We also find in Italy the *Lombardic*, in use for diplomas till the twelfth century.

The beautiful manuscripts on purple vellum are of the time of Charlemagne, when luxury in the arts showed itself in all forms. There is in the National Library, Paris, a magnificent volume, which came from the ancient lordship of Soubise, that contains the Epistles and Gospels for all the festivals of the year: the execution of this work is perfect; the gigantic capital letters, of Anglo-Saxon form, are coloured, and rendered still richer by being dotted with gold.

A valuable manuscript of the "Tractus Temporum" of the Venerable Bede, a manuscript posterior by more than two hundred years to the author, who lived in the beginning of the eighth century, affords a specimen of one of the varieties of minuscule which in France was called *Lombardic*, because it was in use during the reign of the Lombard kings beyond the Alps; though similar in form, it is more difficult to read than the Roman, because the words are not separated. A beautiful manuscript of "Horace" (National Library, Paris), which presents a mixture of the different kinds of Roman writing of the period, is attributed to the same century. We have in Fig. 292 an elegant ornamental capital, taken from a manuscript, "Commentaries of St. Jerome," also in the National Library. We find specimens of writing of Anglo-Saxon origin, capital letters, and running text, in many books of the Gospel.

The diplomatic writing of the tenth century is here represented by a charter of the king, Hugh Capet, from which we borrow Fig. 293; it must have been issued between 988 and 996. In this fragment, the first line only is composed of characters very elongated, close together, mixed with some capital letters and some singular forms. It bears witness to the fact that the fine Merovingian writing had then singularly degenerated.

In the eleventh century the minuscule of manuscripts was characterised by its angular forms, which caused it to receive the name of *Capetian*. Then the Capetian, exaggerated in its tendency towards its strokes and angles, became the *Ludovician*, which announces the thirteenth century, and characterises the reign of St. Louis.

However, manuscripts of the thirteenth century abound, and the history of the writing of the period of St. Louis and of the three centuries suc-

ceeding it, may be summed up in these words:—"The Capetian writing, called *Ludovician* when it had come to differ still more from the beautiful forms of the writings of Charlemagne's time or the renovated Roman, became modified more and more, and its successive degradations became so complicated that in the seventeenth century it ended in being perfectly illegible." (Fig. 294).

This was, however, the era of the richest manuscripts, that in which was brought to perfection the art of ornamenting them, when the pencil of the miniature-painter and the pen of the caligrapher, conjointly, produced some masterpieces (Fig. 295). This was also the time when the corporation of writers became numerous and powerful (Fig. 286). One of the most distinguished members of this society was that Nicholas Flamel,



Fig. 286.—Scribe or Copyist, in his Work-room, surrounded by Open Manuscripts, and Writing at a Desk. (From a Miniature of the Fifteenth Century.)

about whom so many fabulous legends have been invented. We give, as a specimen of his magnificent cursive writing (Fig. 296), the fac-simile of one of the *ex libris* inscriptions he placed at the beginning of all the books belonging to Duke Jean de Berry, whose secretary and librarian he was.

In other countries than France, in Germany especially, Gothic writing was easily diffused. German manuscripts differ little from those of France. We observe only that German writing continued to be very fine till the middle of the thirteenth century, at which period it became irregular, angular, and bristling with sharp points.

That which has just been said of Germany in particular is naturally applicable to East and West Flanders, and to the Low Countries. During the fifteenth century, under the impulse given by the Dukes of Burgundy, whose influence we have already mentioned, the most important chronicles,

the best histories then extant, were magnificently transcribed in that beautiful Gothic minuscule, thick, massive, and angular, which was called *lettre de forme;* and we find it again in some ancient editions of the end of the fifteenth century (Fig. 297), and of the beginning of the sixteenth.

In more northern countries the *Runic* alphabet was made use of, to which for a long while a marvellous origin was attributed, but which the Benedictines justly regarded as an imitation, or rather as a corruption, of the Latin alphabet. There exist in the *Runic* language inscriptions on stone and on wood, some manuscripts on vellum, and Irish books on parchment and on paper.

In the south, writing seems constantly to have reflected the lively and frank spirit of its inhabitants, among whom was perpetuated the profound impress of the old Roman civilisation. The minuscule continued as high as it was long, thin, and distinct; even when it was altered by the influence of the Gothic, it was still beautiful, and, above all, legible, as we may be convinced of by examining a fine manuscript entitled "Specchio della Croce" ("Mirror of the Cross"), of the thirteenth century; and a precious manuscript of Dante, of the fourteenth century, both belonging to the National Library, Paris.

We may say of Spain what we have said of Italy. There was in that country also writing of great merit, handed down from the Romans, which received, as we have already said, the name of *Visigothic.* The Visigothic writing of the eleventh and twelfth centuries, of the eleventh especially, is a minuscule of the most graceful kind. But Gothicism, by the *Capetian* and the *Ludovician* coming in as intermediate agents, at last corrupted this elegant and delicate writing, as we see in the collection of Spanish troubadours, formed by order of John II., King of Castile and Leon, about 1440, a celebrated manuscript in the National Library, Paris.

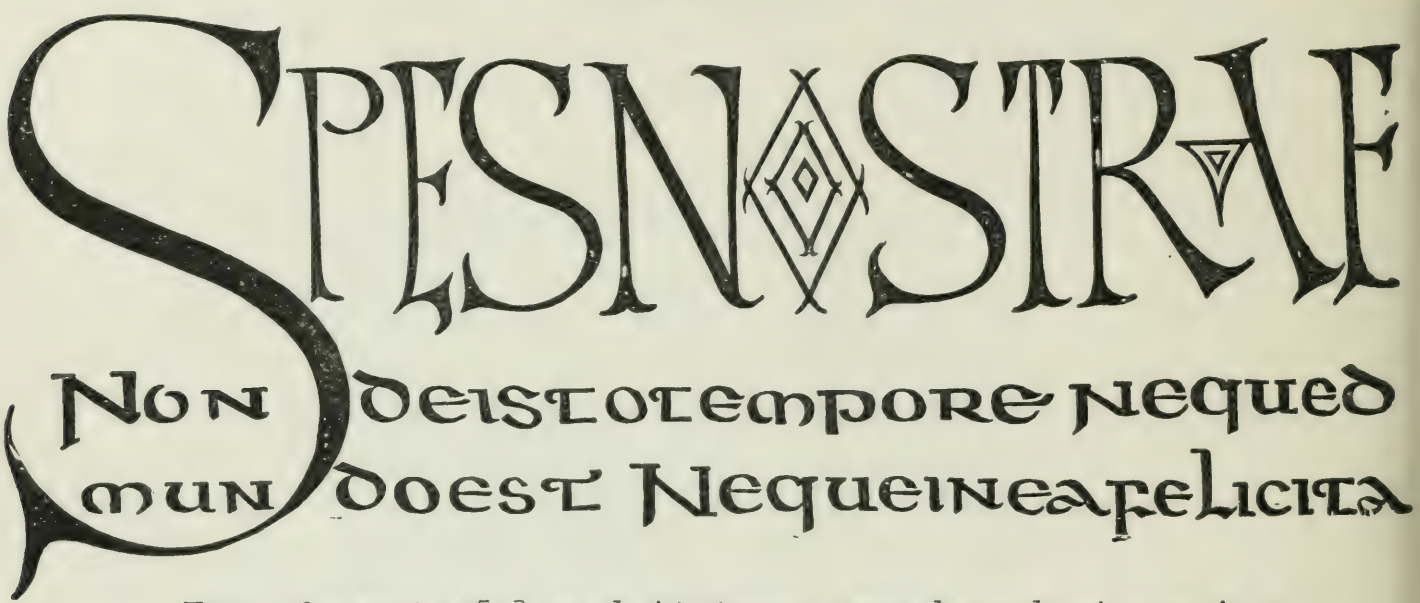
Into England, where the Anglo-Saxon type reigned supreme, the Norman conquest introduced the French writing in charters and manuscripts. And lastly, among the writings called national, we must again mention that of Ireland, of which there are fine examples remaining; but upon examination they prove to be nothing but a variety of the Anglo-Saxon. It is said to have been in use since the sixth century; and we find that in spite of divers conquests it continued to be employed till the fifteenth century. It was even known and employed in France, although it by no means recommends itself by its elegance, as is attested, among other manuscripts, by that of the "Homilies of St. Augustine," in the National Library, Paris, which is supposed to belong to the eighth century.

Here our summary review of palæographic examples at different periods of the Middle Ages comes to an end. We might follow up our investiga-

tions on this point, even after the time when the printing-press was invented, since manuscripts are found of the reign of Louis XIV.; but they were nothing but fanciful inutilities; each century, in order to show itself in its true light, should follow the instincts and the inspirations which belong to it.

FAC-SIMILE OF MANUSCRIPTS.

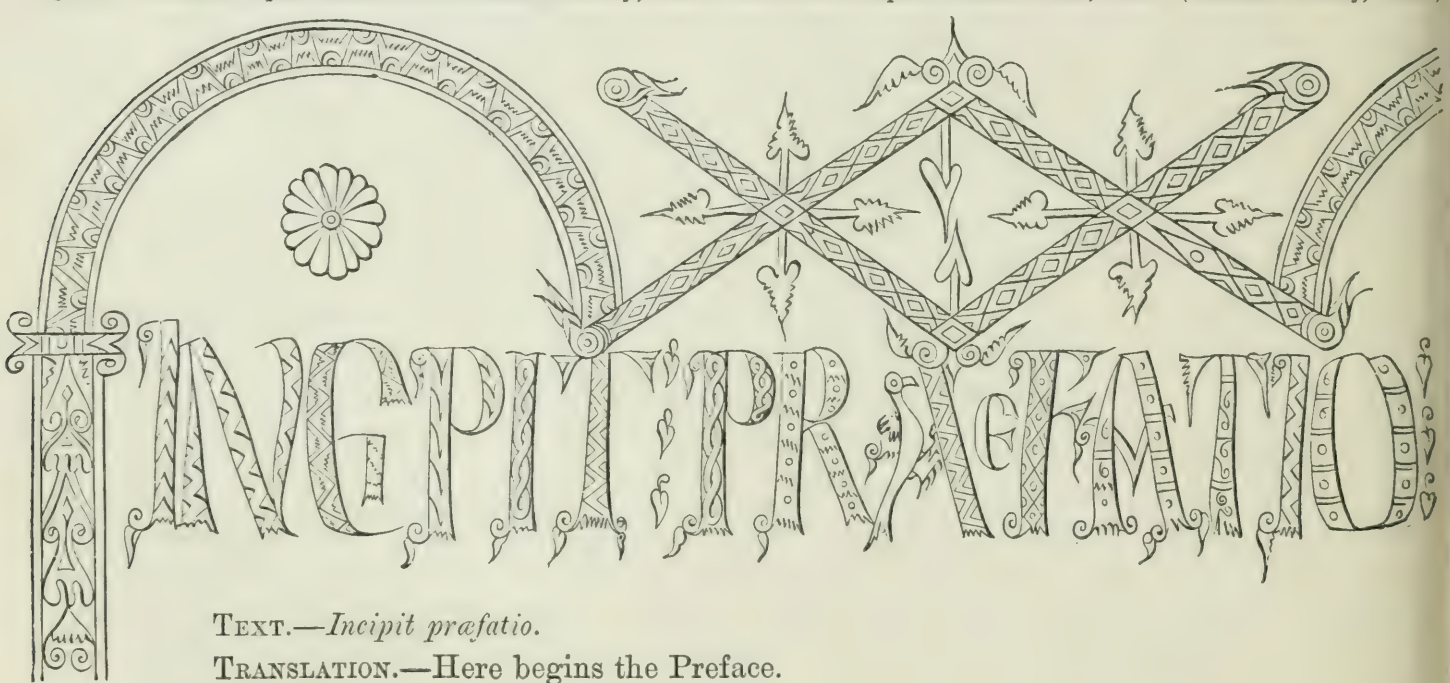
Fig. 287.—Writing of the Sixth Century, with Capital Letters, from a Manuscript, on Papyrus, of the "Sermons of St. Augustine." (National Library, Paris.)



TEXT.—*Spes nostra e[st] non de isto tempore, neque de mundo est, neque in ea felicita[te. . . .*

TRANSLATION.—Our hope is not of this time, nor is it of the world, nor in that felicity.

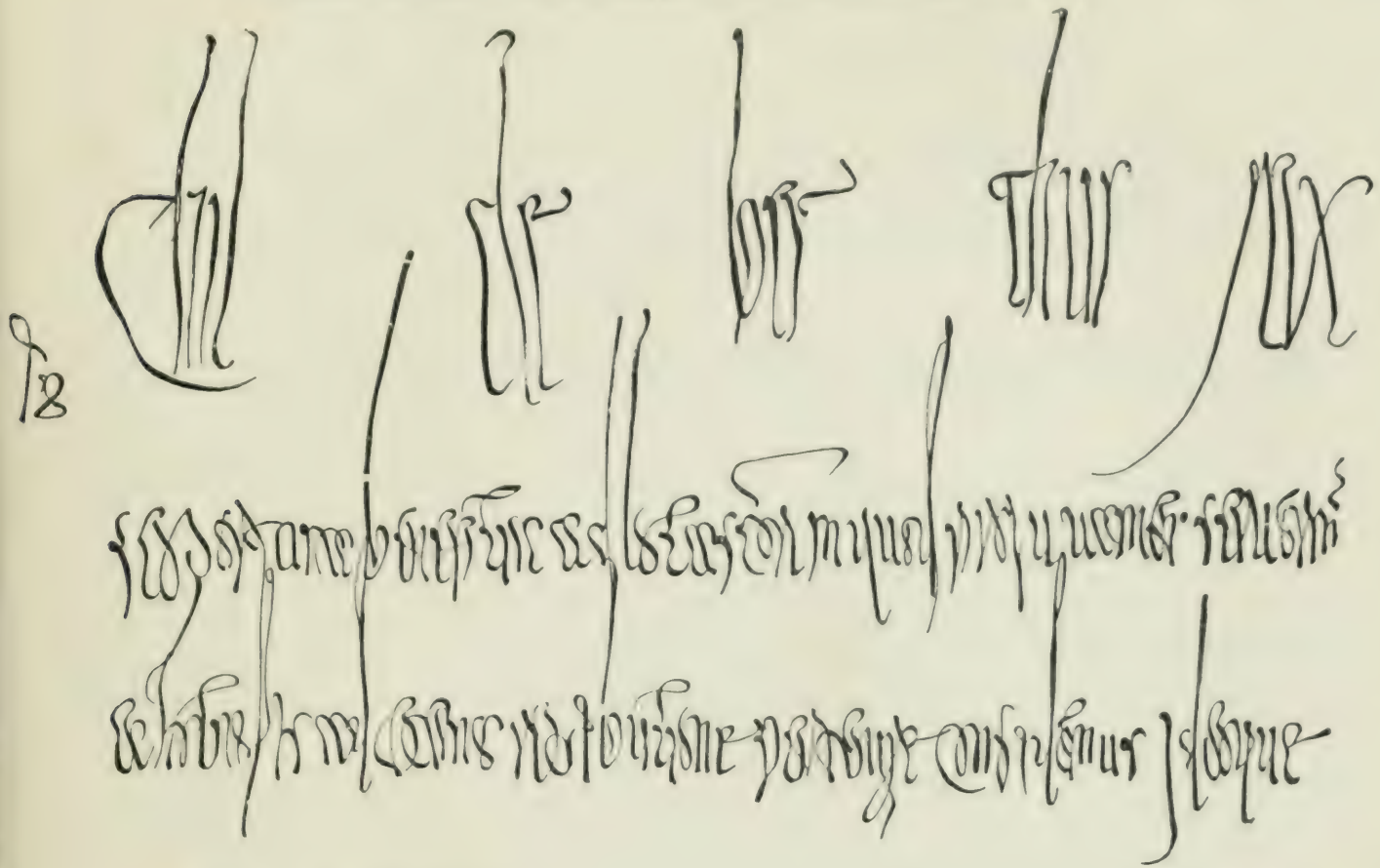
Fig. 288.—Title and Capital Letters of the Seventh Century, from a Book of the Gospels of Notre-Dame, Paris. (National Library, Paris.)



TEXT.—*Incipit præfatio.*

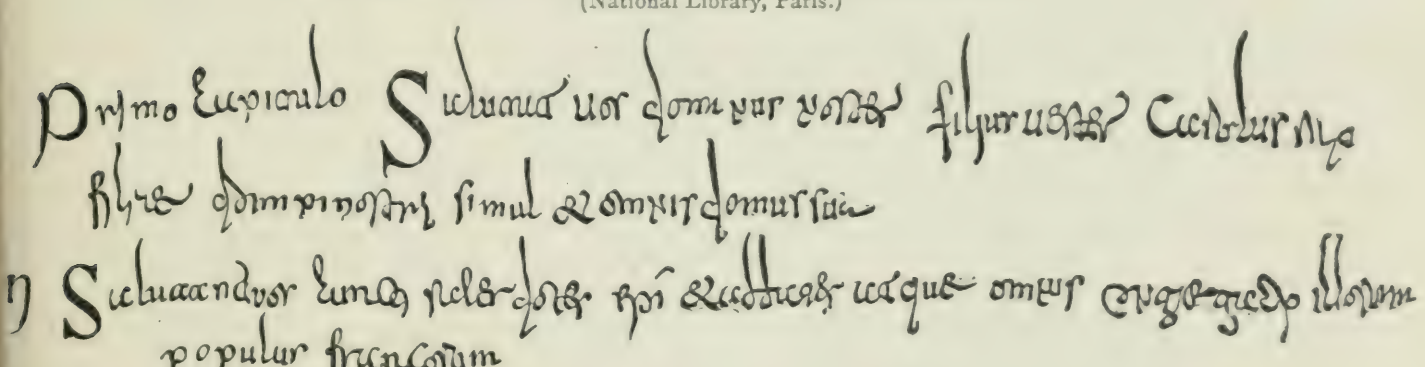
TRANSLATION.—Here begins the Preface.

Fig. 289.—Writing of the end of the Seventh Century, after a Diploma of Childebert III., for the Gift of a Villa to the Abbey of St. Denis. (This Fac-simile gives only the half of the length of the lines.)



TEXT.—*Childeberthus rex*
Se oportune beneficia ad loca sanctorum quod pro juvamen servorum. . . .
Et hoc nobis ad eterna retributione pertenire confidemus. Ideoque. . . .

Fig. 290.—Writing of the Eighth Century, from a Capitulary of Charlemagne, addressed to Pope Adrian I. in 784. (National Library, Paris.)



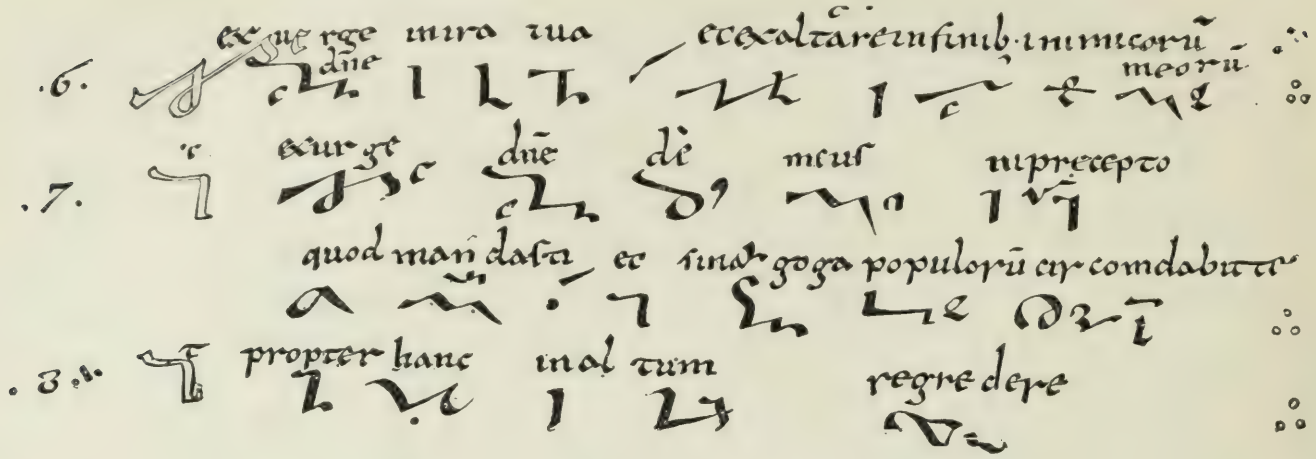
TEXT.—*Primo Capitulo. Salutant vos dominus noster, filius vester, Carolus rex [et filia vestra domna nostra Fastrada, filii et] filiæ domini nostri simul, et omnis domus sua.*

II. Salutant vos cuncti sacerdotes, episcopi et abbates, atque omnis congregatio illorum [in Dei servicio constituta etiam, et universus] populus Francorum.

TRANSLATION.—I. Our lord, your son, King Charles [and your daughter our Lady Fastrada, salute thee, also the sons and] daughters of our Lord, and all his house.

II. All the priests, bishops, and abbots salute thee, as also the whole congregation [of those who are established in the service of God, and the whole] of the French people.

Fig. 291.—Tironian Writing of the Eighth Century, rom a Latin Psalter. (National Library, Paris.)

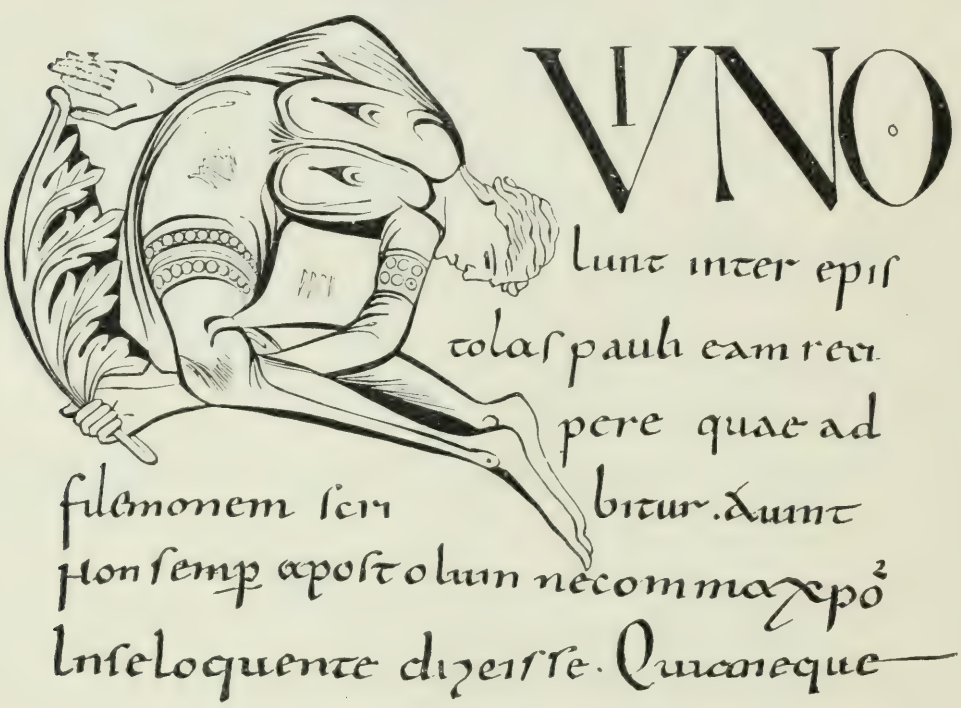


Text.—*Exsurge, Domine, in ira tua et exaltare in finibus inimicorum meorum, et exsurge, Domine Deus meus, in precepto quod mandasti; et sinagoga populorum circumdabit, te, et propter hanc in altum regredere.*

Translation.—Arise, O Lord, in thine anger, lift up thyself because of the rage of mine enemies: and awake for me to the judgment that thou hast commanded.

So shall the congregation of the people compass thee about: for their sakes therefore return though on high.—(Psalm vii. 6, 7.)

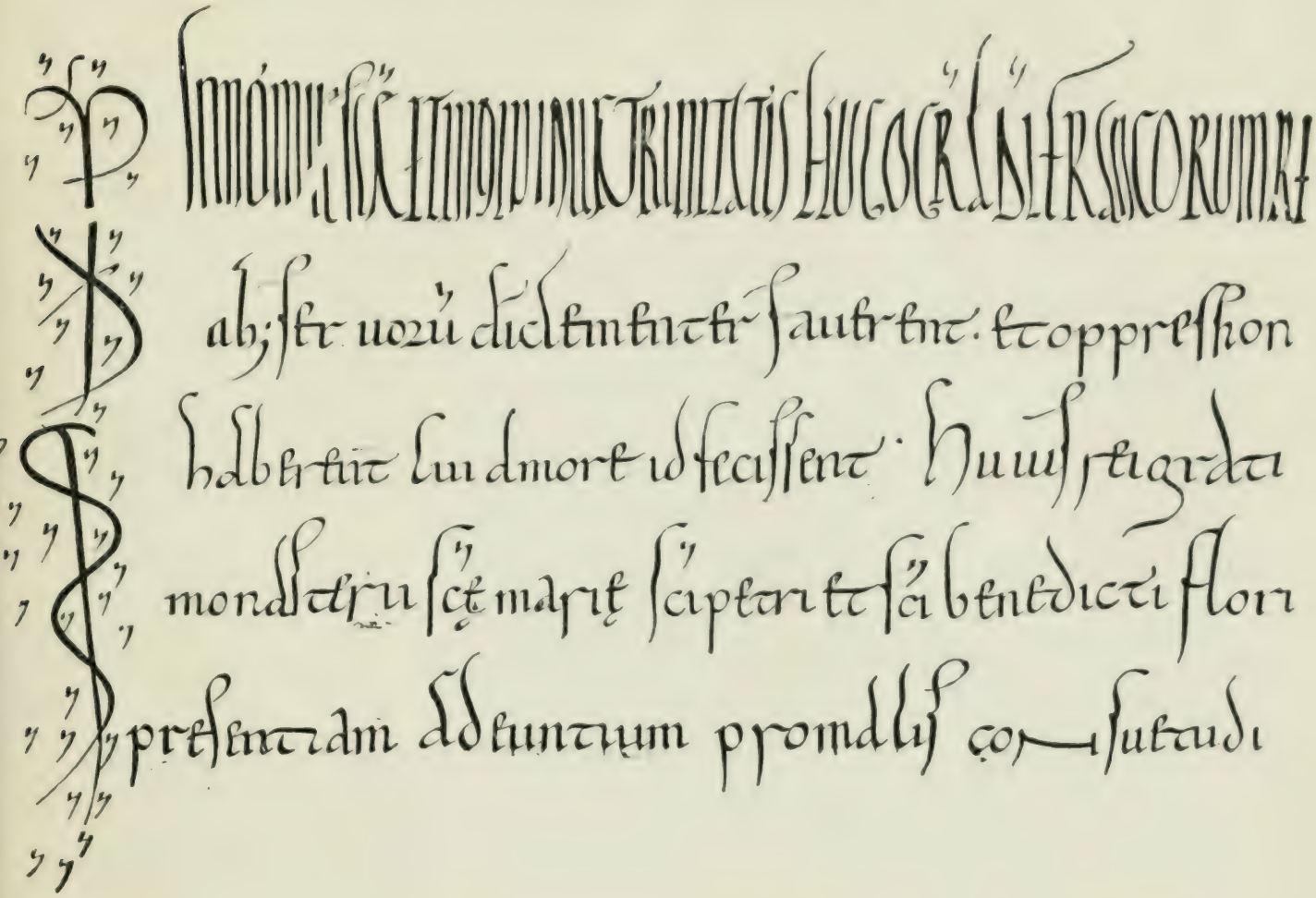
Fig. 292.—Writing of the Tenth Century, after a Manuscript of the "Commentaries of St. Jerome." (National Library, Paris.)



Text.—*Qui nolunt inter epistolas Pauli eam recipere quæ ad Filemonem scribitur aiunt non semper apostolum nec omnia Christo in se loquente dixisse. Quia neque . . .*

Translation.—Those who are unwilling to receive among the epistles of St. Paul that which is written to Philemon, deny that the Apostles spoke everything and at all times under the inspiration of Christ. Because neither . . .

Fig. 293.—Diplomatic Writing of the Tenth Century, from a Charter of Hugh Capet. (Archives of the Empire.)
This Fac-simile gives only half the length of the lines.

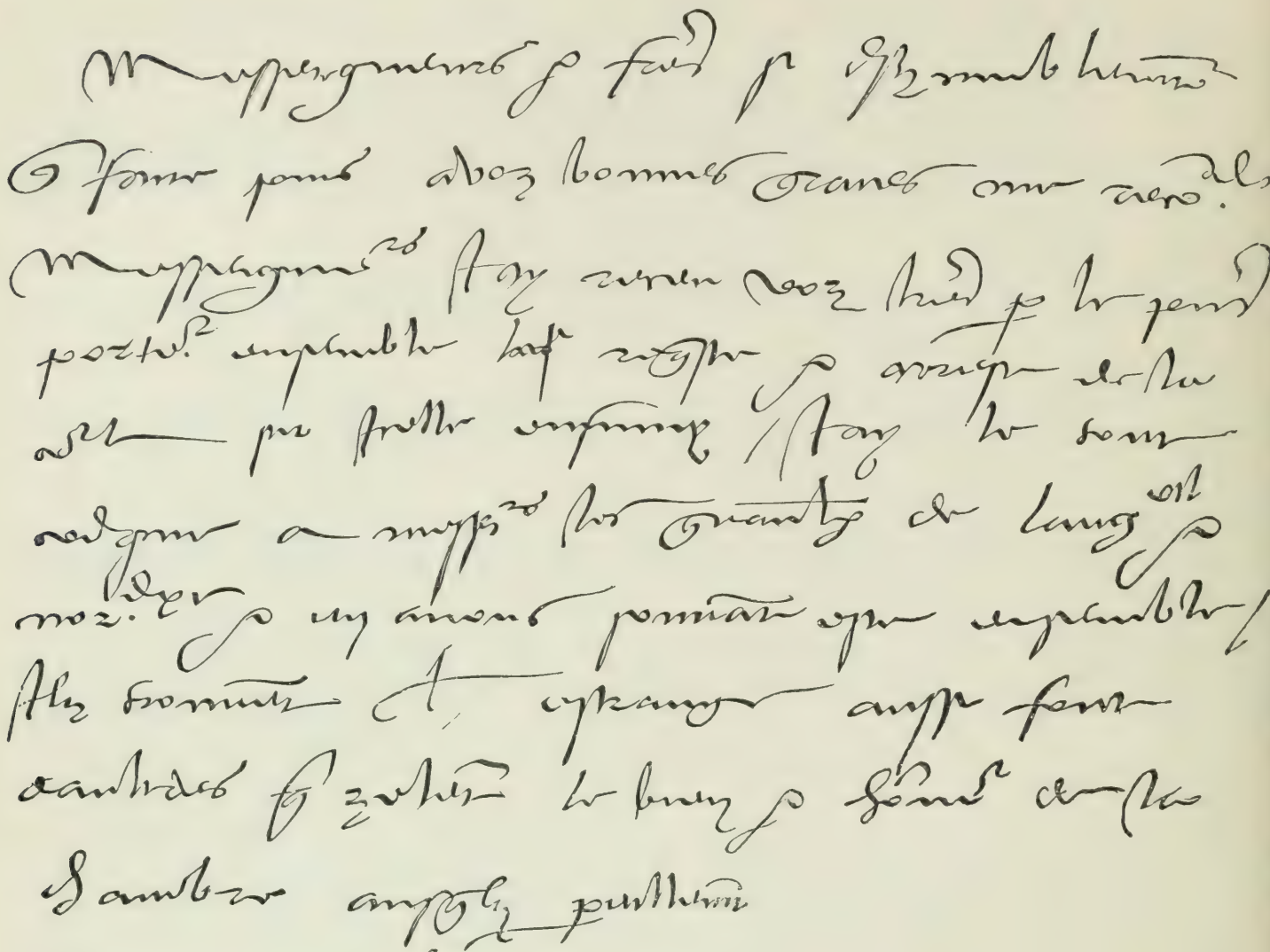


Text (completely restored).—*In nomine sanctæ et individuæ Trinitatis, Hugo gratia Dei Francorum rex. [Mos et consuetudo regum prædecessorum nostrorum semper exstitit ut ecclesias Dei sublimarent et justis petitioni]bus servorum Dei clementer faverent, et oppression[em eorum benigne sublevarent, ut Deum propitium] haberent, cujus amore id fecissent. Hujus rei grati[a, auditis clamoribus venerabilis Abbonis abbatis] monasterii S. Mariæ, S. Petri, et S. Benedicti Flori[acensis et monachorum sub eo degentium, nostram] presentiam adeuntium, pro malis consuetudi[nibus et assiduis rapinis . . .*

Translation.—In the name of the holy and indivisible Trinity, Hugh, by the grace of God, King of the Francs.

The custom and habit of the kings our predecessors has always been to honour the churches of God, and to show themselves mercifully favourable to the just petitions of the servants of God, and to deliver them kindly from oppression, so that God might be propitious to them, for the love of whom they thus acted. For this cause, having heard the complaints of the venerable Abbon, Abbot of the Monastery of Our Lady, St. Peter, and St. Benedict, of Fleury-sur-Loire, and those of the monks living under his direction, and who came into our presence, on account of the bad custom and continual rapines . . .

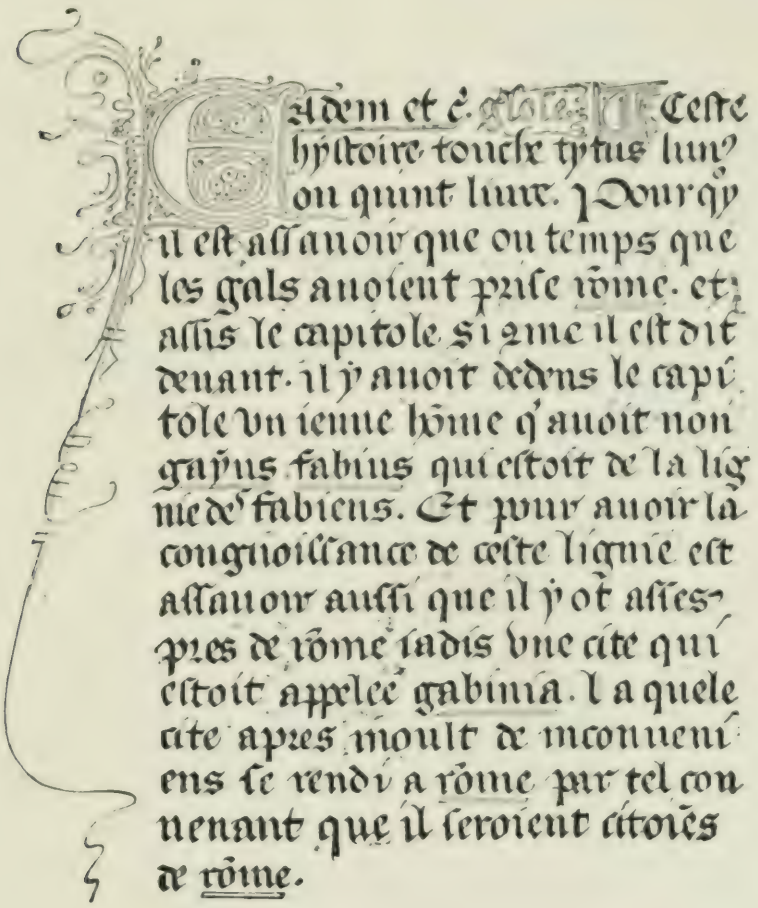
Fig. 294.—Cursive Writing of the Fifteenth Century, after an Original Letter, taken rom "Recueil des Lettres de Rois." (National Library, Paris.)



TEXT.—*Messeigneurs et freres, si tres humblement qui faire puis a voz bonnes graces me recommande. Messeigneurs j'ay receu voz lettres par le present porteur : ensemble la requeste et arrest de la court par icelle ensuivy. J'ay le tout communiqué a messeigneurs les generaulx de Langue doil et Normandie, et nous avons souuant esté ensemble. Ilz trouuent bein estrange, aussi font daultres, qui zelent le bien et honneur de la chambre ausquelz pareillement . . .*

TRANSLATION.—My lords and brothers, I commend myself as humbly as possible to your good graces. My lords, I received your letters by the bearer of this, together with the petition and the decree of the court accompanying them. I communicated the whole to my lords the generals of La Langue d'Oil and of Normandy, and we have often conferred together on the matter. They think it very strange, as do others also, who are zealous for the good and the honour of the chamber, to which equally . . .

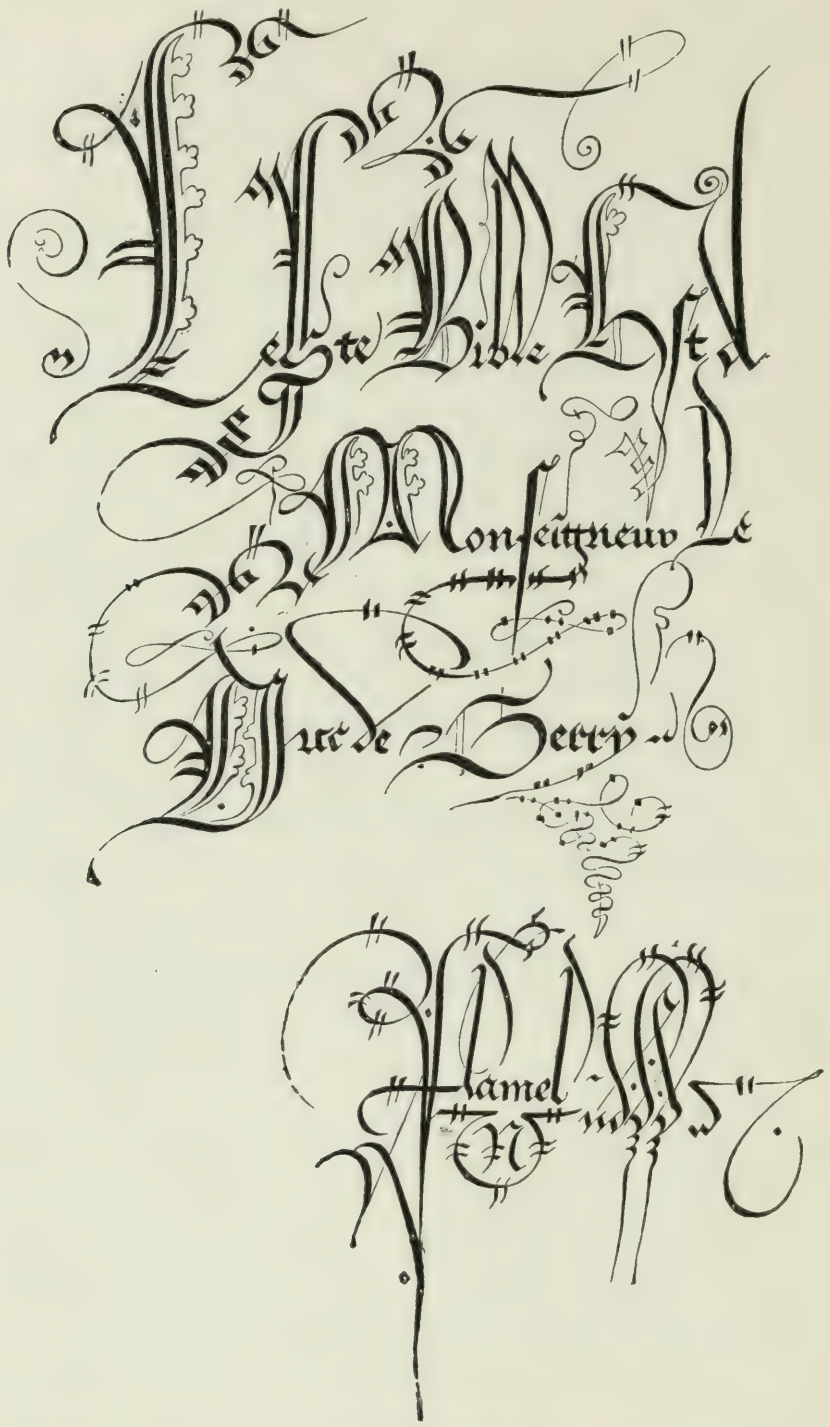
Fig. 295.—Writing of the Fourteenth Century, after a Manuscript of "L'Histoire Romaine;" being a paraphrase of the text of Valerius Maximus. (National Library, Paris.)



Text.—*Eadem, &c.*—Glose. *Ceste histoire touche Titus Liuius ou quint liure. Pourquoy il est assauoir que ou temps que les Gals anoient prise Romme et assis le Capitole, si comme il est dit deuant, il y auoit dedens le Capitole un jeune homme qui auoit non Gayus Fabius qui estoit de la lignie des Fabiens. Et pour auoir la congnoissance de cest lignie est assauoir aussi que il y ot asses pres de Romme jadis une cite qui estoit appelee Gabinia; laquele cite apres moult de inconueniens se rendi a Romme par tel conuenant que il seroient citoiens de Romme.*

Translation.—Eadem, &c.—Gloss. Livy, in his fifth book, touches on this history. We must know that at the time when the Gauls had taken Rome and besieged the Capitol, as was said above, there was in the Capitol a young man named Caius Fabius, and who was of the Fabian race; and to know this race we must also know that there was formerly near Rome a town called Gabinia; which town, after many vicissitudes, surrendered to Rome, on the condition that all its inhabitants should be considered as citizens of Rome.

Fig. 296.—Fac-simile of the Inscription *Ex libris*, &c., in the beginning of a Manuscript executed by John Flamel, Scribe and Librarian to the Duke de Berry, at the end of the Fourteenth Century.
(National Library, Paris.)

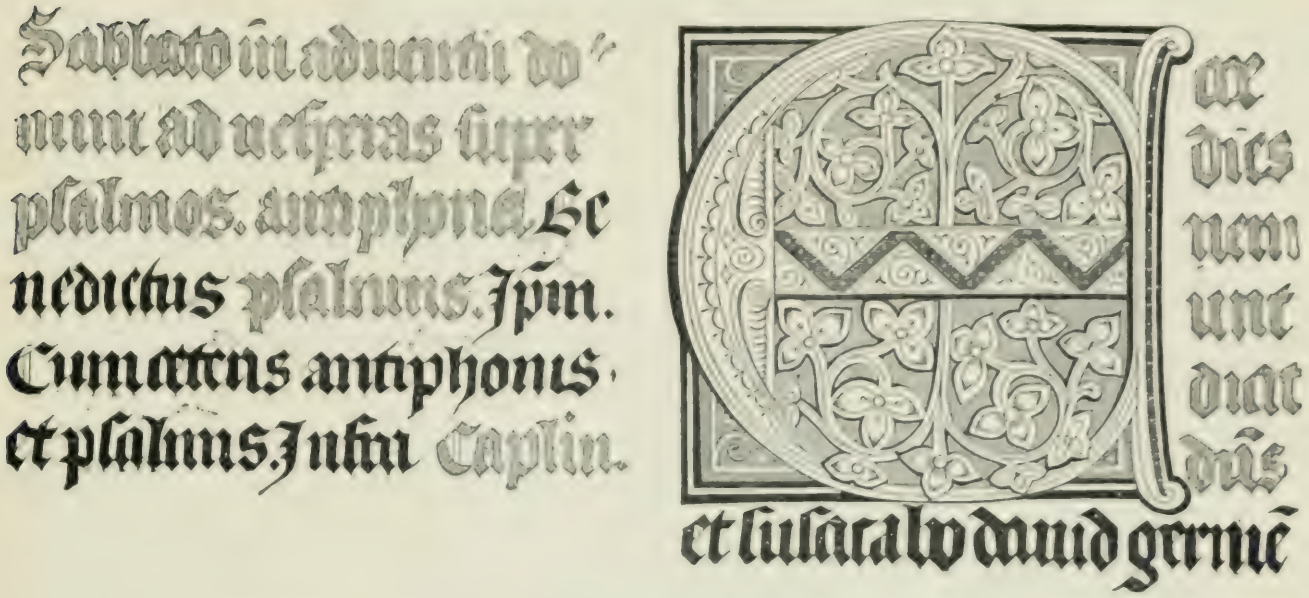


TEXT.—*Ceste Bible est a Monseigneur le Duc de Berry.*
FLAMEL.

TRANSLATION.—This Bible belongs to Monseigneur the Duke de Berry.
FLAMEL.

NOTE.—The Duke de Berry, John, brother of King Charles V., and uncle to King Charles VI., was a great amateur of fine books. He spent very large sums in having manuscripts copied and illuminated. The National Library, Paris, preserves a large number of the most valuable of them.

Fig. 297.—Writing of the Fifteenth Century, after the First Page of a Breviary. (Royal Library, Brussels.)



Text.—*Sabbato in adventu Domini, ad vesperas, super psalmos antiphona, Benedictus, psalmus, ipsum cum ceteris antiphonis et psalmis. Infra capitulum.*

Ecce dies veniunt, dicit Dominus, et suscitabo Dauid germen.

Translation.—On Saturday in Advent, at vespers, before the psalms chanted alternately, (comes) the hymn Benedictus, with the other antiphons and psalms. After the lesson . . .

"Behold the days are coming, saith the Lord, and I will restore the seed of David."

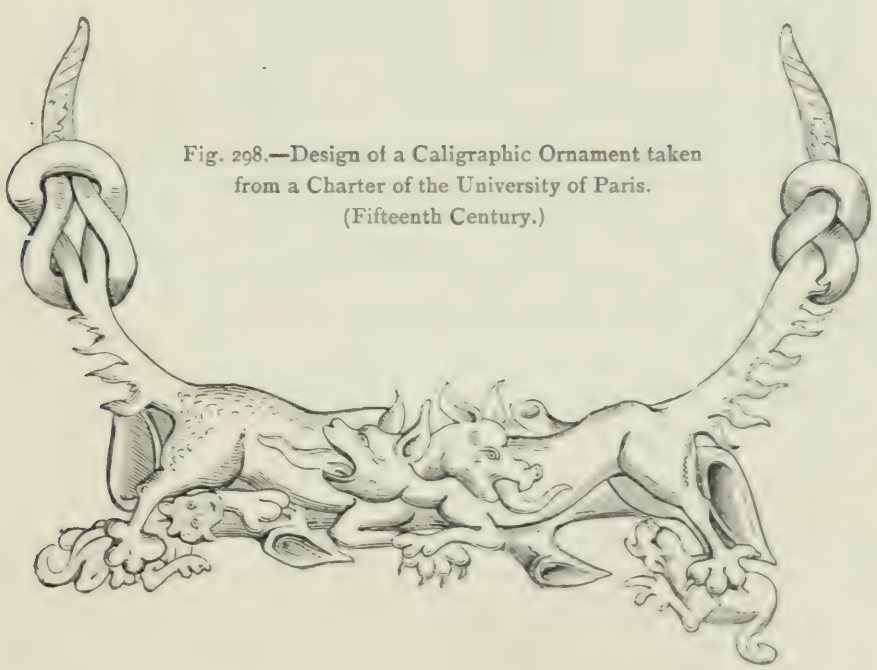


Fig. 298.—Design of a Caligraphic Ornament taken from a Charter of the University of Paris. (Fifteenth Century.)

MINIATURES IN MANUSCRIPTS.

Miniatures at the Beginning of the Middle Ages.—The Two Vatican Virgils.—Painting of Manuscripts under Charlemagne and Louis le Débonnaire.—Tradition of Greek Art in Europe.—Decline of the Miniature in the Tenth Century.—Origin of Gothic Art.—Fine Manuscript of the time of St. Louis.—Clerical and Lay Miniature-Painters.—Caricature and the Grotesque.—Miniatures in Monochrome and in Grisaille.—Illuminators at the Court of France and to the Dukes of Burgundy.—School of John Fouquet.—Italian Miniature-Painters.—Giulo Clovio.—French School under Louis XII.



ONTEMPORANEOUS, almost, with the idea which first caused oral traditions, chronicles, speeches, and poetry to be collected together under the form and name of *book*, is the art of ornamenting manuscripts with miniatures. Our intention is not to go back to the sources—as obscure as they are distant—of that art, but only to point out its principal phases of improvement or of decay during the Middle Ages.

The most ancient known miniatures date from the very commencement of that period which is generally called the Middle Ages; that is to say, from the third and fourth centuries. These paintings, of which there exist but two or three specimens in the libraries of Europe, nevertheless offer, in their correctness and masterly beauty, the great characteristics of ancient Art. The most celebrated are those of the "Virgil," preserved in the Vatican Library (Fig. 299), a manuscript long celebrated among learned men for the authenticity of its text. Another "Virgil," of the date of about a century later, and which, before its presentation to the Pope, was one of the most beautiful ornaments of the ancient library of the Abbey of St. Denis, in France, contains paintings not less remarkable in respect of colour, but very inferior as far as drawing and the style of the compositions are concerned. These two incomparable examples are sufficient in themselves to show the state of the painting of manuscripts at the beginning of the Middle Ages.

The sixth and seventh centuries have left us no books with miniatures; the utmost we find at that period are some capital letters embellished by caligraphy. In the eighth century, on the contrary, the ornaments were multiplied, and some rather elegant paintings can be pointed out; the fact is, under the reign of Charlemagne a movement of renovation took place in the Arts as in literature: the Latin writing, which had become illegible,



Fig. 299.—Miniature taken from the "Virgil" in the Library of the Vatican, Rome.
(Third or Fourth Century.)

was reformed, and the style of painting manuscripts assumed something of the form of the fine antique examples still extant at that period. (Fig. 301.)

If we would have an idea of the heaviness and the ungraceful character of the writing and of the ornaments which accompanied it before the period of Charlemagne, it will suffice to examine Fig. 300. "It was then quite time," says M. Aimé Champollion-Figeac, "that the salutary influence exercised by the illustrious monarch made itself felt in the Arts as well as in

letters." The first manuscripts which seem to bear witness to this progress are first a sacramentary, said to be that of Gellonius, the allegorical paintings of which are of great interest in the history of Christian symbolism; and a

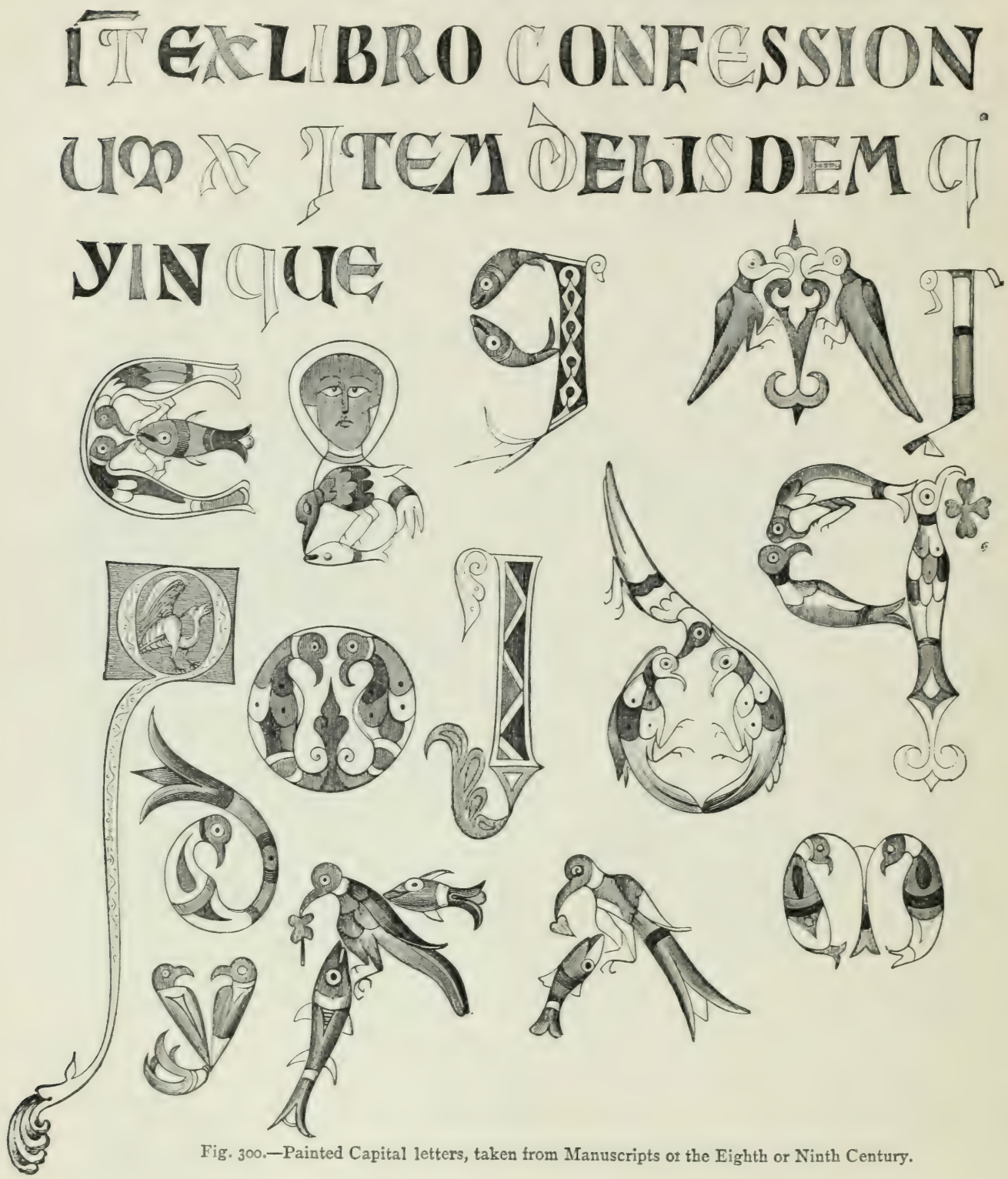


Fig. 300.—Painted Capital letters, taken from Manuscripts of the Eighth or Ninth Century.

Book of the Gospels, now in the Louvre: the latter is said to have belonged to the great emperor himself, and we reproduce one of the paintings from it (Fig. 302). We may mention, as of the ninth century, many Books of the Gospels, in one of which, given by Louis le Debonnaire to the Abbey of

St. Médard at Soissons, the purest Byzantine style shows itself; then the Bible called the "Metz" Bible, in which are paintings of large dimensions, remarkable for the felicitous groupings of the figures and for the beauty of the draperies. One of these miniatures excites an interest quite peculiar, inasmuch as King David, who is represented in it, is but a copy of an ancient Apollo, round whom the artist has personified Courage, Justice, Prudence, &c.

Let us mention still further two Bibles and a book of prayers, the last containing a very fine portrait of the king, Charles the Bald, to whom it belonged; and lastly, two books really worth attention, on account of the delicacy and freedom of the outline drawings, for the attitudes of the characters represented, and for the draperies, which resemble those of ancient statues. These books are a "Terence," preserved in the National Library, Paris, number 7,899 in the catalogue; and a "Lectionary of the Cathedral of Metz," from which the border (303) is taken. While in France the art of painting manuscripts had progressed so much as to produce some perfect models of delicacy and taste, Germany had never got beyond the simplest compositions, as we see in the "Paraphrase on the Gospels," in the old Teutonic language, belonging to the Library of Vienna.



Fig. 301.—Border, taken from a Book of the Gospels of the Eighth Century. (Library of Vienna.)

The artistic traditions of the ancients in the ninth century are attested by the manuscripts of Christian Greece, whereof the National Library, Paris, possesses many magnificent specimens, at the head of which we must place the "Commentaries of Gregory Nazianzen," ornamented with an infinite number of paintings, in which all the resources of ancient art are applied to the representation of Christian subjects (Fig. 304). The heads of the characters portrayed are admirably expressive, and of the finest style; the colouring of the miniatures is warm and soft; the costumes, the representations of buildings and of the accessories, offer, moreover, very interesting subjects of study. Unfortunately, these paintings were executed on a very crumbling surface, which has in many places peeled off: it is sad to see one of the most

precious monuments of Greek and Christian Art in a deplorable state of dilapidation.

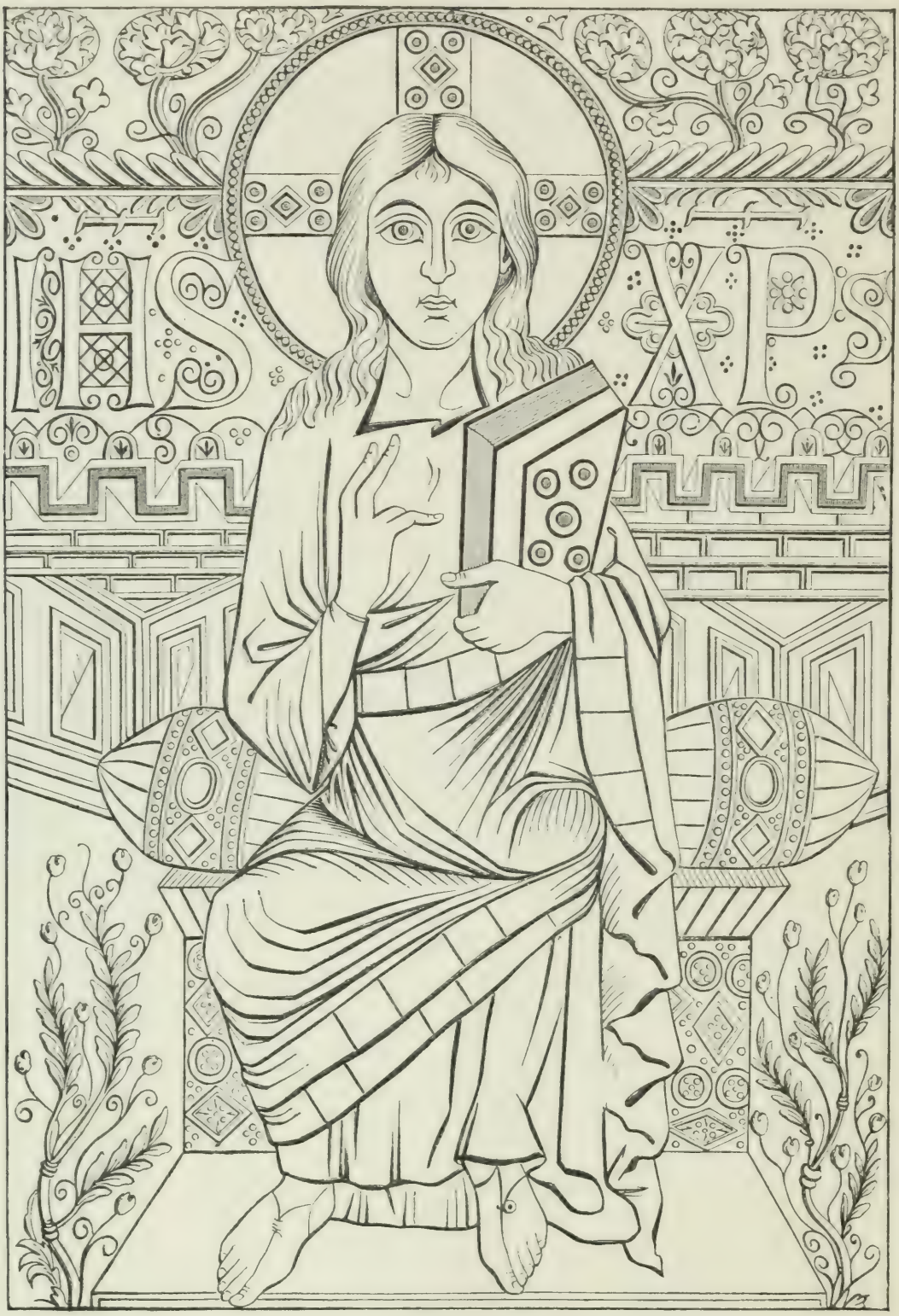


Fig. 302.—Miniature from the Book of the Gospels of Charlemagne.
(Manuscript in the Library of the Louvre.)

The masterpiece of the tenth century, which again is due to the artists of Greece, is a "Psalter, with Commentaries," belonging also to the National

Library (number 139 among the Greek manuscripts), a work in which the miniature-painter seems not to have been able to disengage himself from the Pagan creeds in illustrating Biblical episodes. Two celebrated manuscripts of the same kind, but executed in France, and preserved in the same collection, show, by the stiffness and incorrectness of the drawing, that the impetus given by the genius of Charlemagne had abated: these are the "Bible de Noailles," and the "Bible de St. Martial," of Limoges (Fig. 306).

To speak truly, if in France there was a decadence, the Anglo-Saxon and Visigothic artists of this period were also below their best, to judge from a Latin Book of the Gospels of the tenth century painted in England (Fig. 307); it, however, proves that the art of ornamenting books had degenerated less than that of drawing the human figure. Another manuscript with paintings, called Visigothic, containing the Apocalypse of St. John, gives, in its fantastic ornaments and animals, an example of the strange style adopted by a certain school of miniature-painters.

Germany now began to improve in the art of painting miniatures. It owed this happy result to the emigration of Greek artists, who came to the German court to take refuge from the troubles of the East. The progress accomplished in this part of Europe shows itself in the drawing of the figures of a German Book of the Gospels of the beginning of the eleventh century, a work very superior to that of the Teutonic Book of the Gospels just referred to. The border of which we give a fac-simile in Fig. 308 shows also a certain degree of improvement; it is taken from a Book of the Gospels of the same period, preserved in the Royal Library, Munich.

But in France, to foreign invasions and to misfortunes of all kinds, which, since the death of Charlemagne, had afflicted the country, was added the terror caused by the general expectation that the world was coming to an end at the expiration of the first millennium. People were, therefore, otherwise employed than in ornamenting books. Accordingly, this epoch is one of the most barren in

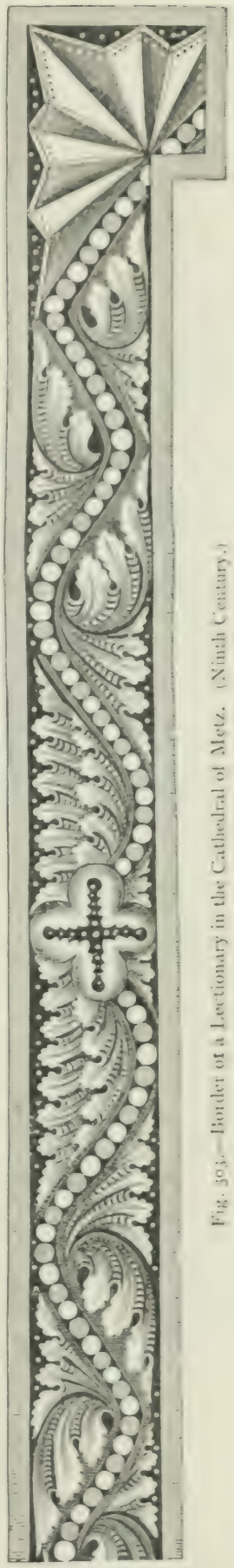


Fig. 305.—Border of a Lectionary in the Cathedral of Metz. (Ninth Century.)

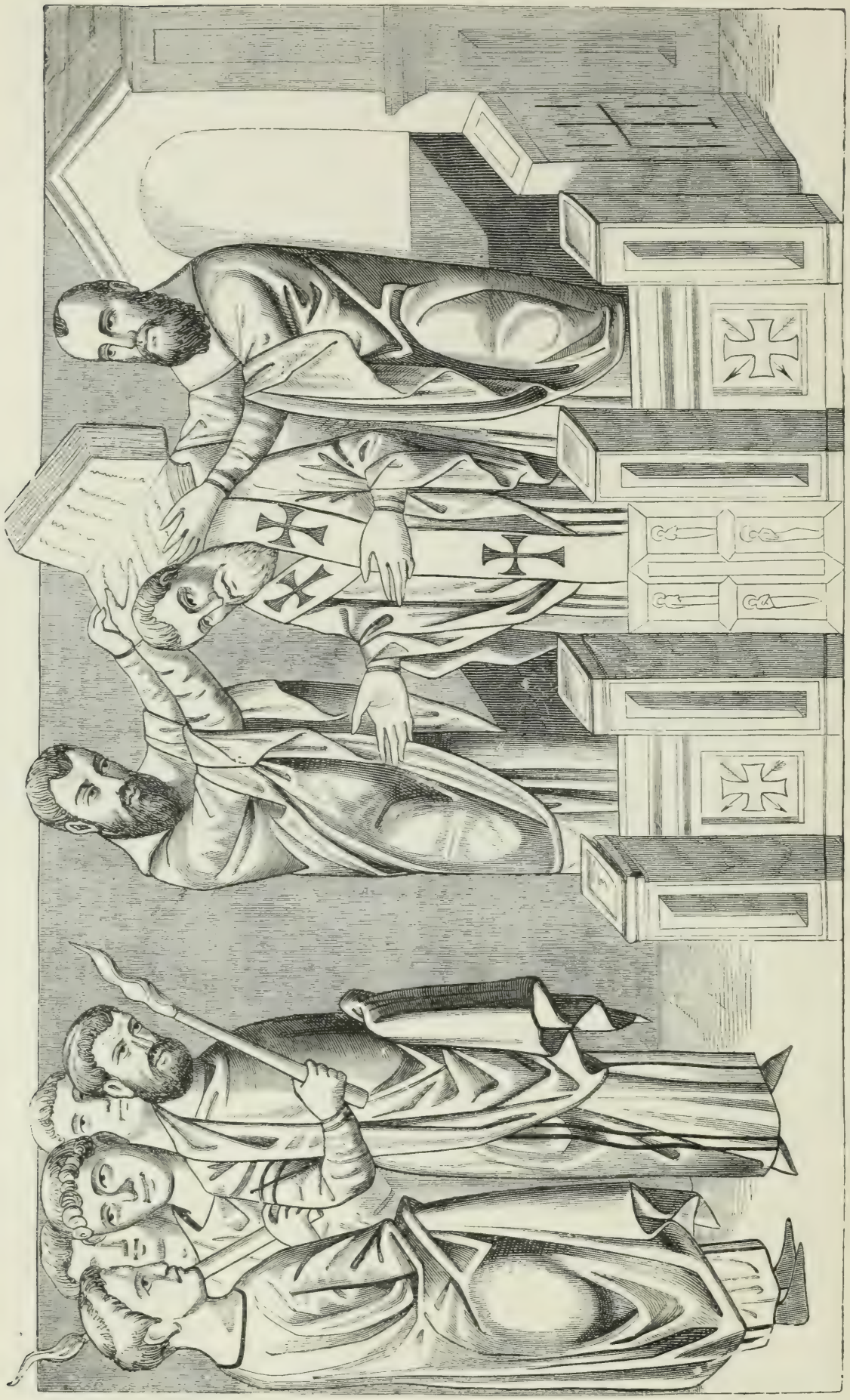


Fig. 304.—Miniature of the Ninth Century, extracted from the "Commentaries of Gregory Nazianzen," representing the consecration of a Bishop. (Large folio Manuscript in the National Library, Paris.)

religious or other paintings. Fig. 309 represents the last degree of abasement in this art. Nothing in the world could be more barbarous, nor farther removed from all sentiment of the beautiful and even from the instinctive idea of drawing. Or-



Fig. 305.—Facsimile of a Miniature drawn with the pen, taken from a Bible of the Eleventh Century. (National Library, Paris.)



Fig. 306.—Border taken from the Bible of St. Martial of Limoges. (Tenth Century.)

namentation, however, remained sufficiently good, although under very heavy forms, as the Sacramentary of Æthelgar, which is preserved in the Library of Rouen, shows (Fig. 310). The decadence, however, seems to have come to a stop in France towards the end of the eleventh century,

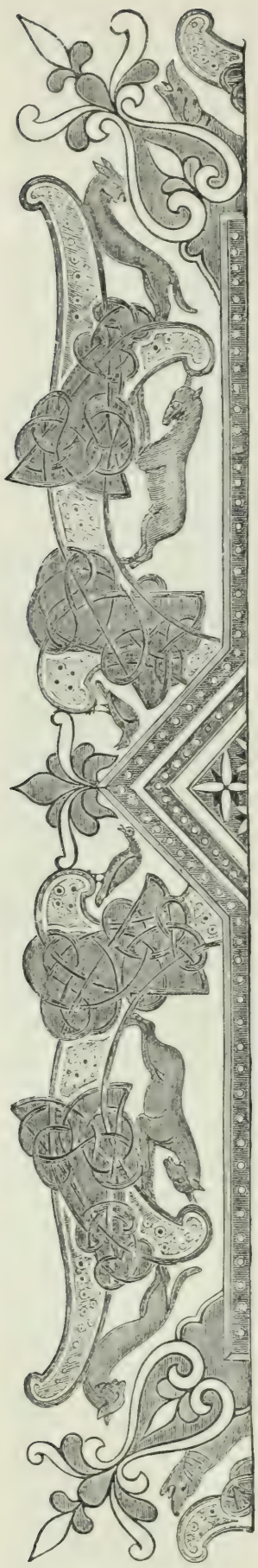


Fig. 307.—Border taken from a Book of the Gospels in Latin, executed in England. (Tenth Century.)

if we judge of the art from paintings, executed in 1060, and contained in a Latin manuscript, bearing the number 818, in the National Library.

In the manuscripts of the twelfth century, the influence of the Crusades made itself already felt. At this period, the East in some sort regenerated the West in all that concerned arts, sciences, and literature. Many examples witness that the painting of manuscripts was not the last to undergo this singular transformation. Everything the imagination could invent of the most fantastic was particularly brought into play to give to the Latin letters a peculiar character—imitated, moreover, from the ornaments of Saracenic architecture. This practice was even applied to public acts and documents, as Fig. 311 proves; it represents some of the initial letters in the "Rouleau Mortuaire" of St. Vital. Callot, in his "Temptation of St. Anthony," has, we think, imagined nothing stranger than the figure we give; a demon standing on the back of Cerberus forms the vertical line in the letter T; while two other demons,



Fig. 308.—Border taken from a Book of the Gospels of the beginning of the Eleventh Century. In the Royal Library, Munich.

whose feet are in the mouth of the first, form the two lateral branches of the letter.

In the thirteenth century, Saracenic or Gothic art universally prevailed. Everywhere figures assumed gaunt, elongated forms; coats-of-arms invaded the miniatures; but the colouring was of marvellous purity and brightness; burnished gold, applied with the greatest skill, stood out from blue or



Fig. 309.—Miniature taken from a Missal of the Beginning of the Eleventh Century. (National Library, Paris, No. 821.)

purple backgrounds which even in our own day have lost nothing of their original freshness.

Among the most remarkable manuscripts of this century we must mention a Psalter in five colours, containing the French, Hebrew, and Roman versions, with some commentaries (National Library, No. 1,132 *bis*). One should analyse the greater number of subjects depicted in this manu-

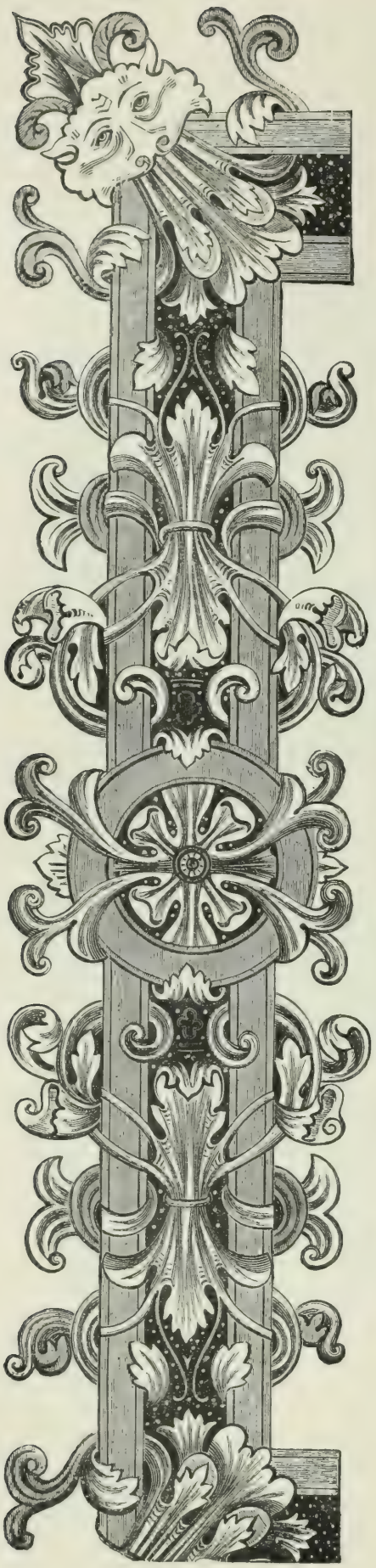


Fig. 310.—Border taken from the Sacramentary of Æthelgar. (Rouen Library.)

script to understand all their importance; we will only mention that among them are sieges of towns, Gothic fortresses, interiors of Italian banking-houses, various musical instruments, &c. There are few manuscripts to equal this in the richness, beauty, and multiplicity of its paintings: it contains ninety-nine large miniatures, independently of ninety-six medallions representing divers episodes suggested by the text of the Psalms (Fig. 312). After this psalter we must place the Breviary of St. Louis, or rather of Queen Blanche, formerly preserved in the Arsenal Library, Paris, and now in the Musée des Souverains; a celebrated manuscript which has, on folio 191, this inscription: "C'est le Psautier monseigneur St. Loys, lequel fu à sa mère" (This is Monseigneur St. Louis' Psalter, which belonged to his mother). But the volume is not rich in large miniatures. We observe in it, however, a calendar ornamented with small subjects very delicately executed, representing the labours appropriate to each month, according to the seasons of the year. The character of the paintings exhibits a style anterior to the reign of Louis IX.; and it is supposed, indeed, that this book first belonged to the mother of that king.

We must now mention another Psalter, which was actually used by St. Louis; as is proved not only by an inscription at the beginning of the volume, but still further by the fleurs-de-lis of the king, the arms of Blanche of Castile, his mother, and perhaps also the *pals de gueules* of Marguerite of Provence, his wife. Nothing can equal the beautiful preservation of the miniatures in this volume,

which contains seventy-eight subjects, with as many explanatory texts in French. The heads of the characters, though almost microscopic, have generally a fine expression.

The "Livre de Clergie," which bears the date of 1260, merits far less attention: so does the "Roman du Roi Artus," No. 6,963, in the National Library, Paris, executed in 1276. But we must point out two of the most



Fig. 311.—Initial Letters extracted from the "Rouleau Mortuaire" of St. Vital, Twelfth Century. (Imperial Archives of France.)

beautiful examples of this period, a Book of the Gospels in Latin, No. 665 in the Supplement, National Library, from which we have borrowed an elegant border (Fig. 313), and the "Roman du Saint-Graal," No. 6,769, also in the National Library.

Italy was then at the head of civilisation in everything; it had



Fig. 312.—Facsimile of a Miniature of a Psalter, of the Thirteenth Century, representing warlike, scientific, commercial, and agricultural works. (National Library, Paris.)

particularly inherited the grand traditions of painting which had gone to sleep in Greece to wake up in the neighbouring peninsula.

Here we must introduce a remark, the result of a general examination of the manuscripts bequeathed to us by the thirteenth century; namely, that the miniatures in sacred books are much more beautifully and carefully executed than those of the romances of chivalry and chronicles of the same period (Figs. 314 and 315). Must we attribute this superiority to the power of religious inspiration? Must we suppose that in the monasteries alone clever artists met with sufficient remuneration? Before answering these questions, or rather as an answer to them, let us remember that in those days religious institutions absorbed nearly all the social intellectual movement, as well as the effective possession of material riches, if not of territorial property. Solely occupied with distant wars or intestine quarrels which impoverished them, the nobles were altogether unable to become protectors of literature and Art. In the abbeys and convents were lay brethren who sometimes had taken no vow, but whose fervent spirits, burning with poetical imagination, sought in the monastic retreat redemption from their past sins: these men of faith were happy to consecrate their whole existence to the ornamentation of a single sacred book destined for the community which gave them in exchange all the necessaries of life.

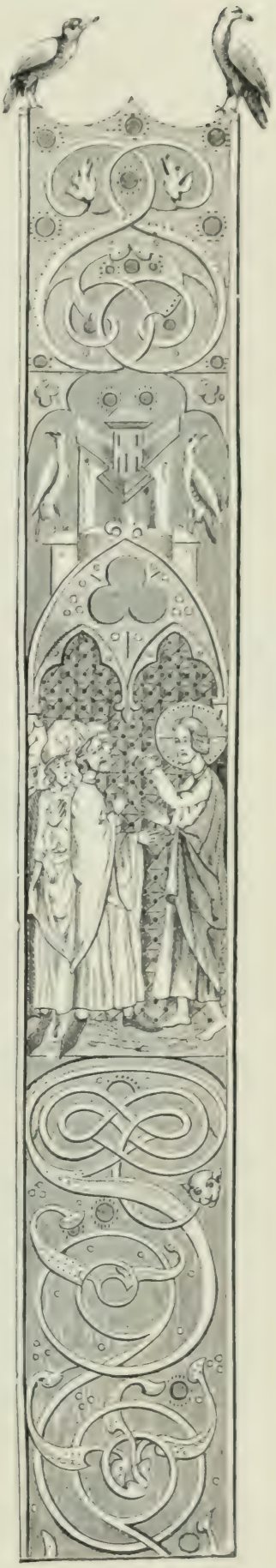


Fig. 313.—A Border taken from a Gospel in Latin, of the Thirteenth Century. (National Library, Paris.)

This explains the absence of the names of the miniature-painters in ancient manuscripts, particularly in those which are written in Latin. However, when romances and chronicles in the vulgar tongue began to come into fashion, artists of great talent eagerly presented themselves to be engaged by princes and nobles who wished to have this sort of books ornamented; but the anonymity which these lay artists generally preserved is explained by the circumstance that in most cases they were considered

only as artistic assistants in the lordly houses where they were employed, and in which they fulfilled some other domestic duty; for instance, Colard

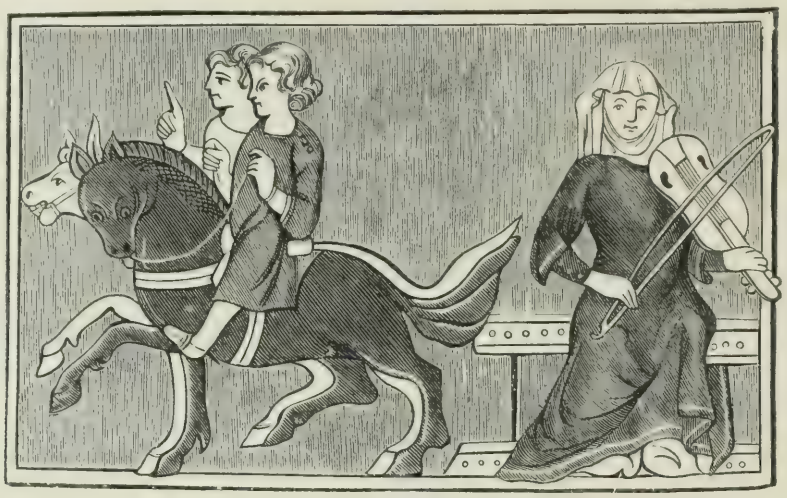


Fig. 314.—Facsimile of a Miniature of the Thirteenth Century, representing a Scene of an old Romance: the beautiful Josiane, disguised as a female juggler, playing a Welsh air on the *Rote* to make herself known to her friend Bewis. (National Library, Paris.)

de Laon, the favourite painter of Louis of Orleans, was also valet-de-chambre to that prince; Piero Andrea, another artist, doubtless an Italian,



Fig. 315.—The Four Sons of Aymon on their good Steed Bayart. From a Miniature in the Romance of the "Four Sons of Aymon," a Manuscript of the Thirteenth Century. (National Library, Paris.)

to judge from his Christian name, was gentleman-usher; and we see this same painter "sent from Blois to Tours, to procure certain matters for



Fig. 316.—Miniature taken from the "Roman de Fauvel" (Fifteenth Century), representing Fauvel, or the Fox, reprimanding a Widow who has married again, and to whom is being given a Serenade of Rough Music. (National Library, Paris.)

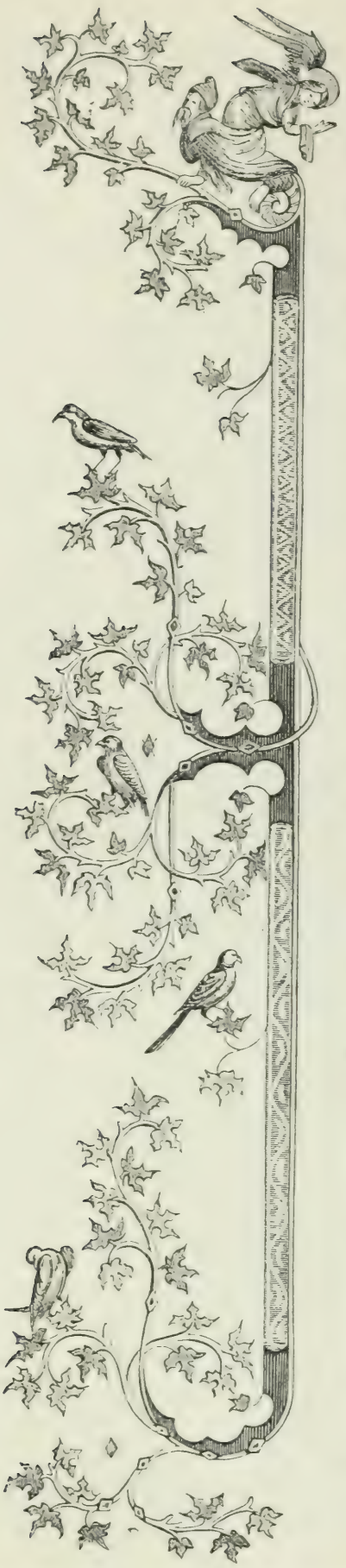


Fig. 317.—Border taken from a Prayer-book belonging to Louis of France, Duke of Anjou, King of Naples, of Sicily, and of Jerusalem. (Fourteenth Century.)

the accouchement of Madame the Duchess;" or again, "from Blois to Romorantin, to inquire after Madame d'Angoulesme, who was reported to be very unwell."

Certain artists, however, who then took the modest name of illuminators, lived entirely by their profession, working at *tableaux benoîts* (blessed pictures), or popular paintings, which were sold at the church-doors. Others, again, were paid assistants



Fig. 318.—Miniature taken from "Les Femmes Illustres," translated from Boccacio. (National Library, Paris.)

of the recognised painters to princes or nobles; and impersonality was quite naturally imposed upon them by their subordinate position, if not by the simple modesty which was for so long the accompaniment of talent. In the fourteenth century the study of miniatures is peculiarly interesting, on account of the scenes of public and private life, of manners and customs, we find reproduced in them. Portraits after life, *d'après le vif*, as they were called in those days, made

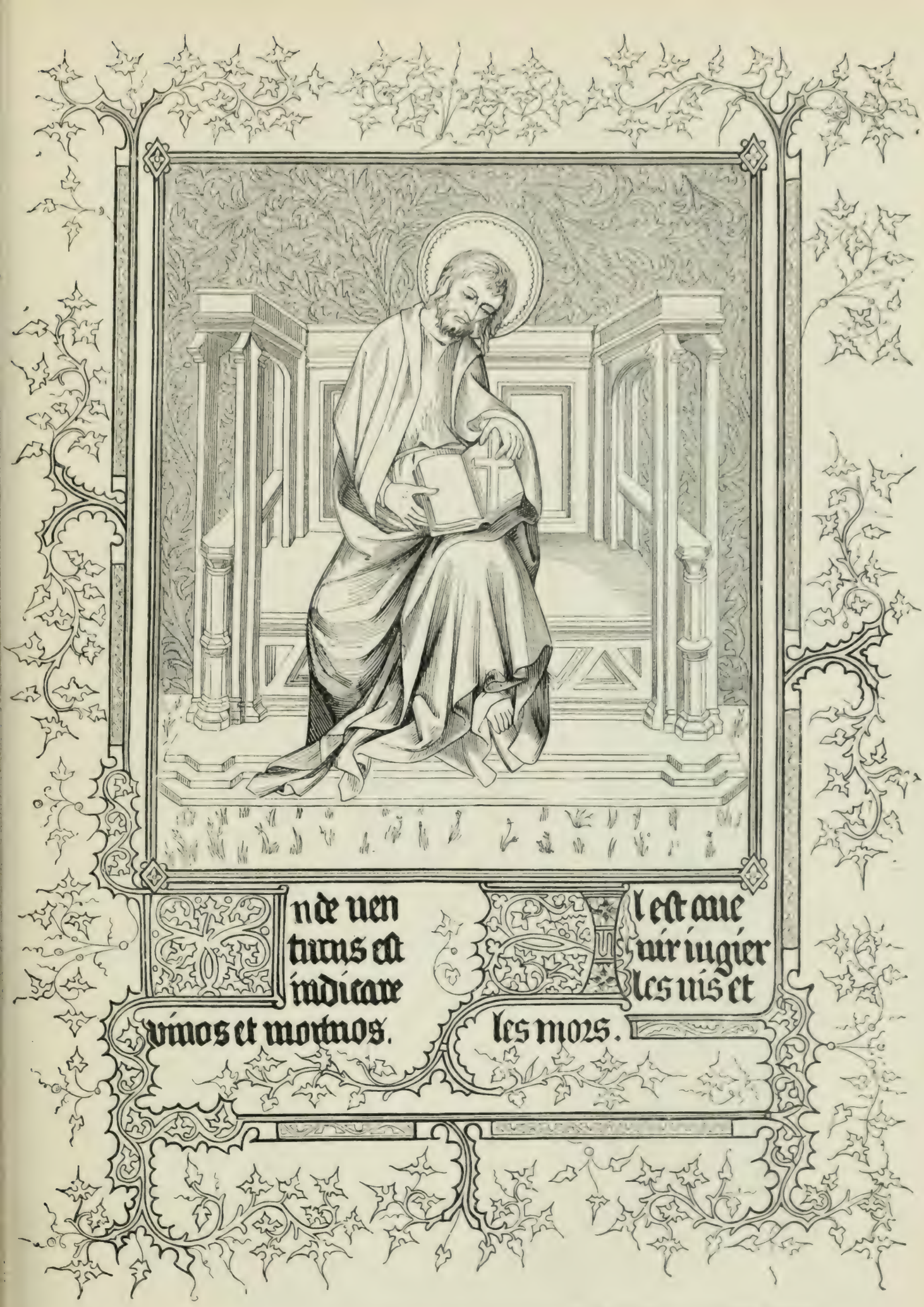


Fig. 319.—Miniature of the Psalter of John, Duke of Berry, representing the Man of Sorrow, or Christ, showing the sign of the Cross. (National Library, Paris.)



Fig. 320.—Border taken from the Bible called Clement VII.'s. (Fourteenth Century.)

their appearance; and caricature, at all times so powerful in France, already began to show itself with a daring which, occupying itself with the clergy, women, and chivalry, stopped only before the prestige of royalty.

The miniatures of a French manuscript, dated 1313 (National Library, Paris, No. 8,504, F. L.), deserve to be mentioned, especially on account of the various subjects they represent; for, besides the ceremony of the reception of the King of Navarre into the order of chivalry, we see in it philosophers discussing, judges administering the law, various scenes of conjugal life, singers accompanying themselves on divers instruments of music, villagers engaged in the labours of country life, &c. We must mention also a manuscript of the "Roman de Fauvel," in which is especially prominent the very original scene of a popular concert of rough music, by masked performers, given, according to an old custom, to a widow who had married a second time (Fig. 316).

The period during which Charles V. occupied the throne of France is one of those that produced the finest specimens of manuscript-painting. This monarch, the founder of the Royal Library, was an admirer of illustrated books, and had accumulated, at great cost, a large collection in the great tower of the Louvre. A royal prince, whom we have already mentioned as being excessively devoted to artistic luxuries, was the rival of Charles V. in this respect: this was his brother, the Duke Jean de Berry, who devoted enormous sums to the purchase and production of manuscripts. Even under Charles VI. this impulse did not abate, and the art of

painting manuscripts was never in a more flourishing condition. The border taken from the "Livre d'Heures," or prayer-book, of the Duke d'Anjou, uncle of the king (Fig. 317), is an example of this. We might mention, as specimens of illustrated works of this period, the book of the "Demandes et Réponses," by Peter Salmon, a manuscript executed for the king, and ornamented with exquisite miniatures, in which all the characters are true historical portraits, beautifully finished. Nevertheless, the masterpieces of the French school at this period show themselves in the miniatures of two translations of Boccacio's "De Claris Mulieribus" (Fig. 318).



Fig. 321.—Miniature from a Manuscript of the Fourteenth Century, representing Louis of Tarento, second Husband of Queen Jane of Naples, instituting the Order of the Holy Ghost.
(National Library, Paris.)

At that time two new styles appeared in the painting of manuscripts: miniatures *en camaïeu* (in one colour only), and miniatures *en grisaille* (in two colours, viz. a light colour shaded, generally with brown). Of the first kind, we may instance "Les Petites Heures" of John, Duke de Berry (Fig. 319), and "Les Miracles de Notre-Dame."

Germany did not in this respect rise to the height of France; but miniature-painting in Italy progressed more and more towards perfection. A remarkable specimen of Italian art of this period is the Bible called



Fig. 322.—Border taken from "Froissart's Chronicles," a French Manuscript of the Fifteenth Century. (National Library, Paris.)

Clement VII.'s (Fig. 320), which is preserved in the National Library, Paris. But there exists one more admirable still in the same establishment, so rich in treasures, the manuscript of "The Institution of the Order of the Holy Ghost," an order of chivalry founded at Naples in 1352, by Louis de Tarento, King of Naples, during a feast on the day of Pentecost. In this superb manuscript, executed by Italian or French artists, may, perhaps, be found the most exquisite miniatures of that day (Fig. 321). Especially remarkable are the beautiful portraits in *camaïeu* of King Louis and his wife, Jane I., Queen of Naples. A valuable copy of the romance of "Lancelot du Lac" of the same date recommends itself to the attention of connoisseurs by a rare peculiarity: one can follow in it the successive operations of the painter in miniature;



Fig. 323.—Border taken from an "Ovid." An Italian Manuscript of the Fifteenth Century. (National Library, Paris.)

thus are presented to us consecutively the outline-drawing, then the first tints, generally uniform, executed by the illuminator; next the surface



Fig. 321.—Miniature, painted by Giulio Clovio, of the Sixteenth Century, taken from Dante's "Paradise," representing the Poet and Beatrice transported to the Moon, the abode of Women devoted to Chastity. (Manuscript in the Vatican Library, Rome.)

on which the gold is to be applied; then the real work of the miniature-painter in the heads, costumes, &c.

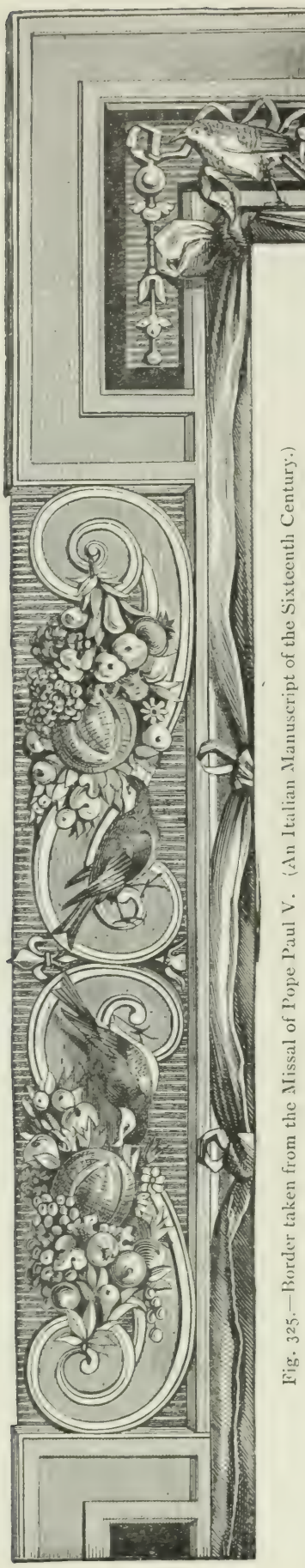


Fig. 325.—Border taken from the Missal of Pope Paul V. (An Italian Manuscript of the Sixteenth Century.)

France, in spite of the great troubles which agitated her, and the wars she had to maintain with foreign powers during the fifteenth century, saw, nevertheless, the art of the painter improve very considerably. The fine copy of Froissart in the Imperial Library, Paris (Fig. 322), might alone suffice to prove the truth of this assertion. The name of John Foucquet, painter to King Louis IX., deserves to be mentioned with eulogy, as that of one of the artists who contributed most to the progress of painting on manuscripts. Everything thenceforward announced the Renaissance which was to take place in the sixteenth century; and if we wish to follow the onward progress of art from the beginning of the fifteenth century till the time of Raphael, it is in the miniatures of manuscripts we shall find the best evidences of it. Let us observe, by the way, that the Flemish school of the Dukes of Burgundy exercised great influence over this marvellous art for a period of more than a century. Spain was also progressing; but it is to the Italian artists we must, from that time forward, look for the most remarkable works. The National Library of Paris possesses many manuscripts which bear witness to the marked improvement in miniature-painting at this period; among others an "Ovid" of the fifteenth century (Fig. 323); but in order to see the highest expression of the art, we must examine an incomparable copy of Dante's works, preserved in the Vatican, a manuscript proceeding from the hands of Giulio Clovio (Fig. 324), an illustrious painter, pupil and imitator of Raphael: his miniatures are remarkable for beauty.

Lastly, in the reign of Louis XII., the complete regeneration of the Art was effected. We should, however, mention that at this period there were two very distinct schools: one whose style

still showed the influence of ancient Gothic traditions, the other entirely



Fig. 326.—Miniature from the Prayer-book of Anne de Bretagne, representing the Archangel St. Michael. (Musée des Souverains.)

dependent on Italian taste. The Missal of Pope Paul V. emanated from this latter school (Fig. 325).

This immense progress, which showed itself simultaneously in France and in Italy by the production of many original works, seems to have attained its climax in the execution of a justly celebrated manuscript, known by the name of "Les Heures d'Anne de Bretagne" (Fig. 326). Among the



Fig. 327.—Miniature in the "Livre d'Heures" belonging to the Margrave of Baden, representing the Portrait of the blessed Bernard of Baden, who died in the odour of Sanctity, on July 15, 1458. (National Library, Paris.)

numerous pictures which decorate this book of prayers, many would not be unworthy of Raphael's pencil; the expression in the face of the Virgin Mary is, with many others, remarkable for its sweetness; the heads of the angels have something divine in them; and the ornaments which occupy the margin

of each page are composed of flowers, fruits, and insects, represented with all the freshness and brilliancy of nature. This inimitable masterpiece was, like a sort of sublime testament, to mark the glorious boundary-line of an art which must necessarily degenerate now that the printing-press was causing the numerous class of scribes and illuminators of the Middle Ages to disappear. It has never revived since, but at intervals, and then more to meet the requirements of fancy than to be of any real use.

A few manuscripts adorned with miniatures of the end of the sixteenth century may still be mentioned, especially two "Livres d'Heures" (prayer-books) painted in *grisaille*, which belonged to Henry II., King of France (now in the Musée des Souverains), and the "Livre d'Heures," executed for the Margrave of Baden by a painter of Lorraine or of Metz named Brentel (Fig. 327), who, however, did nothing but put together designs copied from the great masters of Italy and Flanders. There were, nevertheless, good miniature-painters in France up to the seventeenth century, to illustrate the manuscripts executed with so much taste by the famous Jarry and the caligraphers of his school. The last manifestation of the art shines forth, for example, in the magnificent "Livre d'Heures" presented to Louis XIV. by the pensioners of the Hôtel des Invalides, a remarkable work, but yet unworthy to appear by the side of the "Livre d'Heures d'Anne de Bretagne," which the painter seems to have adopted as his model.



Fig. 328.—Escutcheon of France, taken from some Ornaments in the Manuscript of the "Institution of the Order of the Holy Ghost." (Fourteenth Century.)

BOOKBINDING.

Primitive Binding of Books.—Bookbinding among the Romans.—Books bound with Goldsmith's Work from the Fifth Century.—Chained Books.—Corporation of *Lieurs* or Bookbinders.—Books bound in Wood, with Metal Corners and Clasps.—First Bindings in Leather, honeycombed (*waffled*) and gilt.—Description of some celebrated Bindings of the Fourteenth and Fifteenth Centuries.—Sources of Modern Bookbinding.—Jean Grollier.—President De Thou.—Kings and Queens of France Bibliomaniacs.—Superiority of Bookbinding in France.



AS soon as the ancients had made square books, more convenient to read than the rolls, bookbinding—that is to say, the art of fixing the leaves into a movable back between two square pieces of wood, ivory, metal, or leather—was invented. This primitive binding, which had no other object than that of preserving the books, no other merit than that of solidity, was not long ere it became associated with ornament, and thus put itself in relation with the luxury of Greek and Roman civilisation. Not contented with placing on each side of the volume a little tablet of cedar-wood or of oak, on which was written the title of the book (for books were then laid flat on the shelves of the library), a piece of leather was stretched over the edge to preserve it from dust, if the book was valuable, and the volume was tied up with a strap passed round it many times, and which was subsequently replaced by clasps. In certain instances the volume was enveloped in thick cloth, and even enclosed in a case of wood or leather. Such was the state of bookbinding in ancient times.

There were then, as now, good and bad bookbinders. Cicero, in his letters to Atticus, asks for two of his slaves who were very clever *ligatores librorum* (bookbinders). Bookbinding, however, was not an art very generally known, for square books, notwithstanding the convenience of their shape, had not yet superseded rolls; but we see, in the Notices of the







PANEL OF A BOOK COVER.

Bas-relief in Gold Repousse. Ninth Century. In the Louvre.

Dignities of the Eastern Empire ("Notitia Dignitatum Imperii"), written towards 450, that this accessory art had already made immense progress; since certain officers of the empire used to carry, in the public ceremonies, large square books containing the administrative instructions of the emperor: these books were bound, covered with green, red, blue, or yellow leather, closed by means of leathern straps or by hooks, and ornamented with little golden rods disposed horizontally, or lozengewise, with the portrait of the sovereign painted or gilt on their sides. From the fifth century goldsmiths and lapidaries ornamented binding with great richness. And so we hear St. Jerome exclaiming:—"Your books are covered with precious stones, and Christ died naked before the gate of his temple!" "The Book of the Gospels," in Greek, given to the basilica of Monza by Theodelinda, Queen of the Lombards, about 600, has still one of these costly bindings.

A specimen of Byzantine art, preserved in the Louvre, is a sort of small plate, which is supposed to be one of the sides of the cover of a book; on it we find executed in bas-relief the "Visit of the Holy Women to the Tomb," and several other scenes from the Gospels. In this example the beauty of the figures, the taste which dictated the arrangement of the draperies, and the finish in the execution, furnish us with evidence that, in the industrial arts, the Greeks had maintained till the twelfth century their pre-eminence over all the people of Europe.

In those days the binding of ordinary books was executed without any ornamentation, this being reserved for sacred books. If, in the treasures of churches, abbeys, and palaces, a few manuscripts covered with gold, silver, and precious stones were kept as relics, books in common use were simply covered in boards or leather; but not without much attention being given to the binding, which was merely intended to preserve the volumes. Many documents bear witness to the great care and precision with which, in certain monasteries, books were bound and preserved. All sorts of skins were employed in covering them when they had been once pressed and joined together between boards of hard wood that would not readily decay: in the North, even the skins of seals and of sharks were employed, but pig-skin seems to have been used in preference to all others.

It must be admitted that we, perhaps, owe to their rich bindings, which were well calculated to tempt thieves, the destruction of a number of valuable manuscripts when towns or monasteries were sacked; but, on the other hand, the sumptuous bindings with which kings and nobles covered Bibles, the Gospels, antiphonaries, and missals, have certainly preserved to us very many curious examples that, without them, would by degrees have deteriorated, or would not have escaped all the chances of destruction to which they were exposed. It is thus, for instance, that

the famous manuscript of Sens has descended to us, which contains "La Messe des Fous," set to music in the twelfth century; it is bound between two pieces of ivory, with bas-relief carvings of the fourth century, representing the festivals of Bacchus. All great public collections show with pride some of these rare and venerable bindings, decorated with

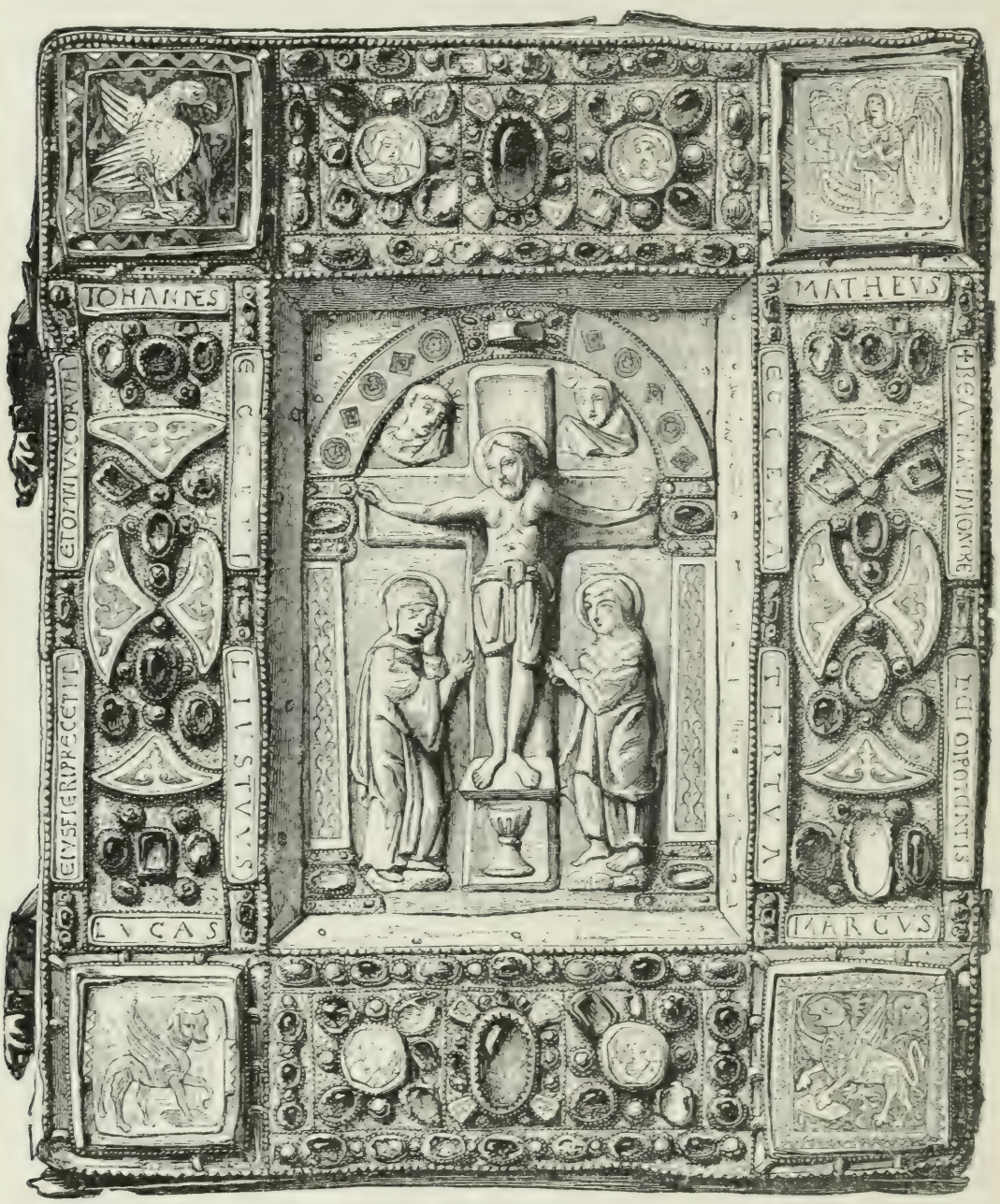


Fig. 329.—Binding in Gold, adorned with precious Stones, which covered a "Book of the Gospels" of the Eleventh Century, representing Jesus Crucified, with the Virgin and St. John at the Foot of the Cross. (Louvre.)

gold, silver, or copper, engraved, chased, or inlaid with precious stones or coloured glass, with cameos or antique ivories (Fig. 329). The greater number of rich books of the Gospels mentioned in history date back as far as the period of Charlemagne, and among these we must mention, above all, one given by the emperor himself to the Abbey of







St. Riquier, "covered with plates of silver, and ornamented with gold and gems;" that of St. Maximin of Treves, which came from Ada, daughter of Pepin, sister of Charlemagne, and was ornamented with an engraved agate representing Ada, the emperor, and his sons; and lastly, one that was to be seen as late as 1727 in the convent of Hautvillers, near Epernay, and which was bound in carved ivory.

Sometimes these sumptuous volumes were enclosed in an envelope made of rich stuff; or, in pursuance of an ancient custom, a casket not less gorgeously decorated than the binding, contained it. The Prayer-book of Charlemagne, now preserved in the Library of the Louvre, is

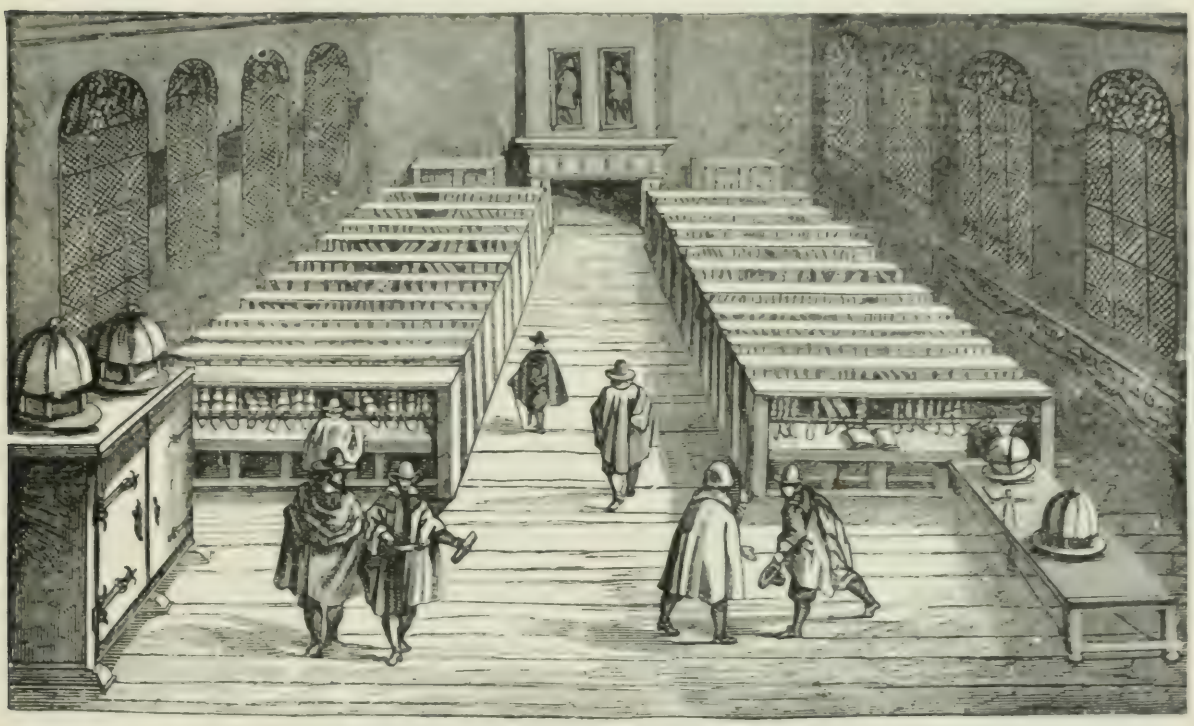


Fig. 330.—Library of the University of Leyder, in which all the Books were chained, even in the Seventeenth Century.

known to have been originally enclosed in a small casket of silver gilt, on which were represented in relief the "Mysteries of the Passion."

These books, however, bound with goldsmith's work, were not those that were chained in churches and in certain libraries (Fig. 330), as some volumes still in existence, with the rings through which passed the chain that fastened them to the desk still on them, show. These *catenati* (chained books) were generally Bibles and missals, bound in wood and heavily ornamented with metallic corners, which, while placed at the disposition of the faithful and of the public in general, their owners wished to guarantee against being stolen.

We must not forget to mention, among the most beautiful bindings

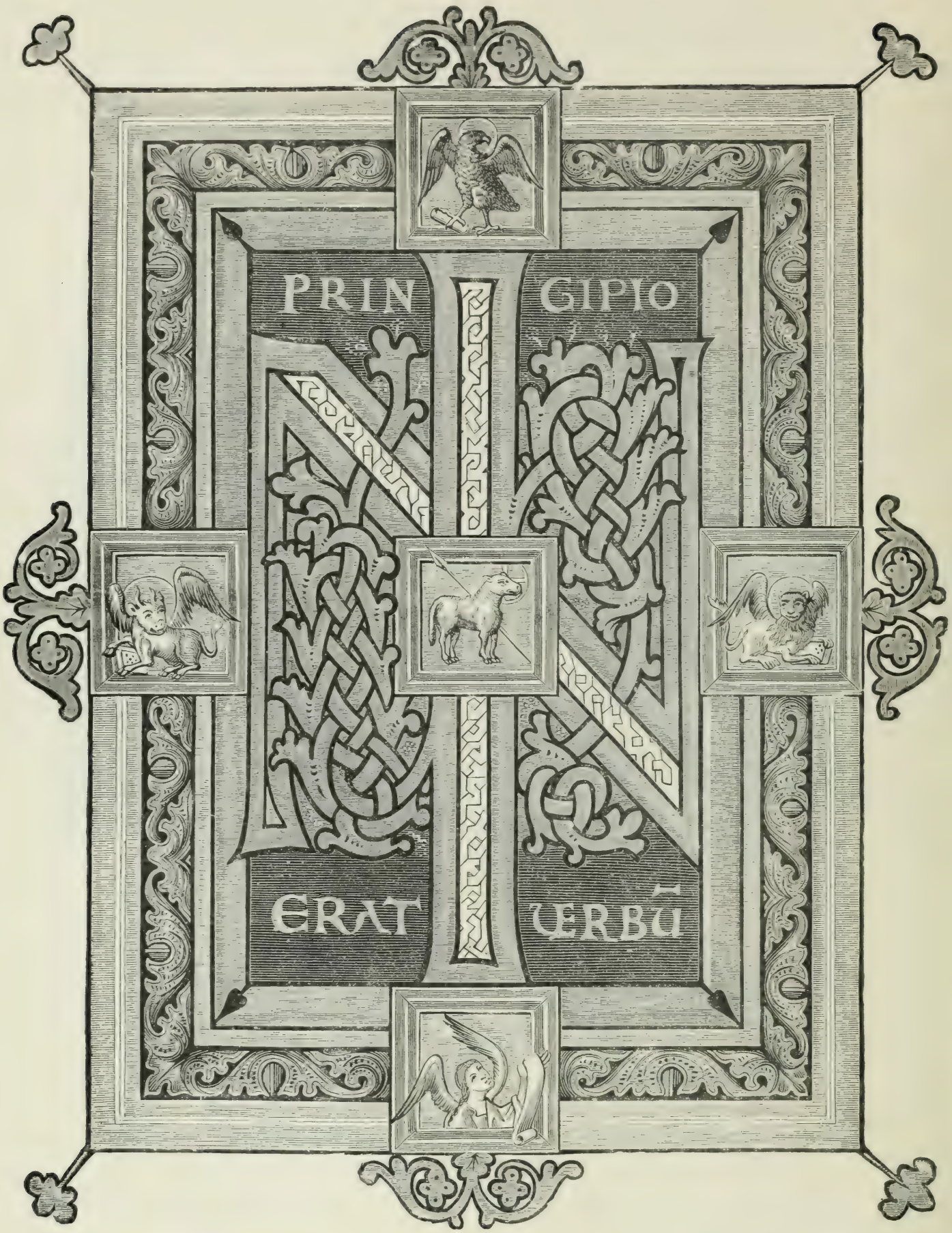


Fig. 331.—Large Painted Initial Letter in a Manuscript in the Royal Library, Brussels, showing the arrangement of the Binding, in enamelled Metal, of a book of the Gospels. (Ninth or Tenth Century.)

of the eleventh and twelfth centuries, the coverings of books in enamelled copper (Fig. 331). The Cluny Museum possesses two plates of incrusted enamel of Limoges, which must have belonged to one of these bindings: the first has for its subject the "Adoration of the Magi;" the other represents the monk Etienne de Muret, founder of the order of Grandmont (in the twelfth century), conversing with St. Nicholas. The Cathedral of Milan contains in its treasury the covering of a book still more ancient and much richer, about fourteen inches long by twelve inches wide, and profusely covered with encrusted enamel, mounted and ornamented with polished, but uncut, precious stones of various colours.

But all these were only the work of enamellers, goldsmiths, illuminators, and clasp-makers. The binders, or bookbinders properly so called, fastened together the leaves of books, and placed them between two boards, which they then covered with leather, skin, stuff, or parchment; they added to these coverings sometimes leathern straps, sometimes metal clasps, sometimes hooks, to keep the volume firmly closed, and almost always nails, whose round and projecting heads preserved the flat surface of the binding from being rubbed.

In the year 1299, when the tax was imposed upon the inhabitants of Paris for the exigencies of the king, it was ascertained that the number of bookbinders then actually in the town amounted only to seventeen, who, as well as the scribes and booksellers, were directly dependent on the University, the authorities of which placed them under the surveillance of four sworn bookbinders, who were considered the *agents* of the University. We must except, however, from this jurisdiction the acknowledged bookbinder to the "Chambre des Comptes," who, before he could be appointed to this office, had to make an affirmation *that he could neither read nor write.*

In the musters, or processions, of the University of Paris, the bookbinders came after the booksellers. To explain the relatively small number of professed bookbinders, we must remember that at this period the majority of scholars bound their own books, as divers passages of ancient authors prove; while the monasteries, which were the principal centres of bookmakers, had one or many members of their community whose special function it was to bind the works written within their walls. Tritheimius, Abbot of Spanheim at the end of the fifteenth century, does not forget the bookbinders in the enumeration he makes of the different employments of his monks:—"Let that one," says he, "fasten the leaves together, and bind the book with boards. You, prepare those boards; you, dress the leather; you, the metal plates, which are to adorn the binding." These bindings are represented on the seal of the University of Oxford (Fig. 332), and on the banners of some French corporation of printers and booksellers (Figs. 333 and 337).

The metal plates, the corners, the nails, the clasps with which these volumes were then laden, rendered them so heavy that, in order to enable the reader to turn over the leaves with facility, they were placed on one of those revolving desks having space for many open folios at the same time, and which were capable of accommodating many readers simultaneously. It is said that Petrarch had caused a volume containing the "Epistles of Cicero," transcribed by himself, to be bound so massively, that as he was continually reading it, he often let it fall and injured his leg; so badly once that he was threatened with amputation. This manuscript in Petrarch's



Fig. 332.—Seal of the University of Oxford, in which is a Book bound with Corners and Clasps.

handwriting is still to be seen in the Laurentian Library at Florence; it is bound in wood, with edges and clasps of copper.

The Crusades, which introduced into Europe many luxurious customs, must have had great influence on bookbinding, since the Arabs had for a long while known the art of preparing, dyeing, stamping, and gilding the skins they employed to make covers for books: these covers took the name of *alæ* (wings), no doubt from the resemblance between them and the wings of a bird of rich plumage. The Crusaders having brought back from their expeditions specimens of Oriental binding, our European workmen did not fail to turn their brilliant models to account.

An entire revolution, moreover, which had taken place in the formation of royal and princely libraries, was to produce a revolution in binding also. Bibles, missals, reproductions of ancient authors, treatises on theology, were no longer the only books in common use. The new language had given rise to histories, romances, and poems, which were the delight of a society becoming more and more polished every day. For the pleasure of readers, the gallant of one sex and the fair of the other, books were required more agreeable to the eye, and less rough to the touch, than those used for the edification of monks or the instruction of scholars. And first of all were substituted, for the purpose of manuscripts, sizes more portable than the grave folio. Then fine and smooth vellum was used for writing, and books were covered in velvet, silk, or woollen stuffs. Moreover, paper, a recent invention, opened up a new era for libraries; but two centuries



Fig 333.—Banner of the Corporation of Printers-Booksellers of Angers.

were to elapse before pasteboard had entirely taken the place of wooden covers.

It is in the inventories, in the accounts, and in the archives of kings and princes, that we must look for the history of bookbinding in the fourteenth and fifteenth centuries (Fig. 334). We shall limit ourselves to giving a description of some costly bindings, taken from the inventories of the magnificent libraries of the Dukes of Burgundy and of Orleans, now partly destroyed, and partly scattered about among the great public collections of France and other countries.

Belonging to the Dukes of Burgundy, Philip the Bold, Jean sans Peur, and Philip the Good, we see a small Book of the Gospels and of the "Heures de la Croix" (a kind of prayer-book), with "a binding embellished with gold and fifty-eight large pearls, in a case made of camlet, with one large pearl and a cluster of small pearls;" the romance of the "Moralité des Hommes sur le Ju (jeu) des Eschiers" (the game

of chess), "covered with silk, with white and red flowers, and silver-gilt



Fig. 334.—Fragment of an engraved and stamped Binding in an unknown Material (Fifteenth Century), representing the mystical Chase of the Unicorn, which is taking refuge in the lap of the Virgin. (Public Library, Rouen.)

nails, on a green ground;" a Book of Orisons, "covered with red leather,

with silver-gilt nails;" a Psalter, "having two silver-gilt clasps, bound in blue, with a golden eagle with two heads and red talons, to which is attached a little silver-gilt instrument for turning over the leaves, with three escutcheons of the same arms, covered with a red velvet *chemise.*" * The *chemise* was a sort of pocket in which certain valuable books were enveloped. The "Heures de St. Louis" (St. Louis's Prayer-book), now in the Musée des Souverains, is still in its *chemise* of red sandal-wood.

The same inventories give an account of the prices paid for some bindings and their accessories. Thus, in 1386, Martin Lhuillier, a bookseller at Paris, received from the Duke of Burgundy 16 francs (equivalent to about 114 francs French money of the present time), "for binding eight



Fig. 335.—Bookbinders' Work-room, drawn and engraved in the Sixteenth Century, by J. Amman.

books, of which six were covered in grained leather;" on Sept. 19, 1394, the Duke of Orleans paid to Peter Blondel, goldsmith, 12 livres 15 sols, "for having *wrought*, besides the duke's silver seal, two clasps" for the book of Boethius; and on Jan. 15, 1398, to Émelot de Rubert, an embroideress at Paris, 50 *sols tournois*, "for having cut out and worked in gold and silk two covers of green Dampmas cloth, one for the Breviary, the other for the Book of Hours of the aforesaid nobleman, and for having made fifteen markers (*sinets*) and four pair of silk and gold straps for the said books."

* "Garni de deux fermaulx d'argent, dorez, armoiez d'azur à une aigle d'or à deux testes, onglé de gueulles, auquel a ung tuyau d'argent doré pour tourner les feuilles, à trois escussons desdites armes, couvert d'une chemise de veluyau vermeil."

The old style of thick, heavy, in some sort armour-plated, binding, could not exist long after the invention of printing, which, while multiplying books, diminished their weight, reduced their size, and, moreover, gave them a less intrinsic value. Wooden boards were replaced by compressed cardboard, nails and clasps were gradually laid aside, and stuffs of different kinds no longer used; only skin, leather, and parchment were employed. This was the beginning of modern binding; but bookbinders were as yet but mechanics working for the booksellers, who, when they had on their premises a bookbinding-room (Fig. 335), assumed, in their editions, the double title of *libraire-relieur* (bookseller-bookbinder) (Fig. 336). "In 1578, Nicholas Eve still placed on his books and his sign-board," "Bookseller to



Fig. 336.—Mark of William Eustace (1512), Bookseller and Binder, Paris.

the University of Paris and Bookbinder to the King." No volume was sold unbound.

From the end of the fifteenth century, although bookbinding was always considered as an adjunct to the bookseller's shop, certain amateurs who had a taste for art required richer and more *recherché* exteriors for their books. Italy set us the example of beautiful bindings in morocco, stamped and gilt; imitated, however, from those of the Koran and other Arabian manuscripts, which Venetian navigators frequently brought back with them from the East. The expedition of Charles VIII. and the wars of Louis XII. introduced into France not only Italian bindings, but Italian binders also. Without renouncing, however, at least for the *livres d'heures*, the

bindings ornamented with goldsmith's work and gems, France had very soon binders of her own, surpassing those who had been to them as initiators or masters. Jean Grollier, of Lyons, loved books too much not to wish to give them an exterior ornamentation worthy of the wealth of knowledge they contained. Treasurer of War, and Intendant of the Milanese before the battle of Pavia, he had begun to create a library, which he subsequently transported into France, and did not cease to enlarge and to enrich till his death, which happened in 1565. His books were bound in morocco from the Levant, with such care and taste that, under the supervision of this exacting amateur, bookbinding seemed to have already attained perfection.

Princes and ladies of the court prided themselves on their love of books and the desire to acquire them; they founded libraries, and encouraged the works and inventions of good bookbinders who produced masterpieces of patience and ability in decorating the covers of books, either with enamalled paintings, or with mosaics made of different pieces inlaid, or with plain gildings stamped on the surface with small irons. It would be impossible to enumerate the splendid bindings in all styles that the French bookbinders of the sixteenth century have left us, and which have never been surpassed since. The painter, the engraver, and even the goldsmith, co-operated with the bookbinder in his art, by furnishing him with designs for ornaments. We now see reappearing some plates obtained from hot or cold dies, representing various subjects; and the designs from which they were taken, reproduced from those that had been in fashion towards the beginning of the sixteenth century, were often drawn by distinguished artists, such as Jean Cousin, Stephen de Laulne, &c.

Nearly all the French kings, especially the Valois, were passionately fond of splendid bindings. Catherine de Medicis was such a connoisseur of finely-bound books, that authors and booksellers, who eagerly presented her with copies of their works, tried to distinguish themselves in the choice and beauty of the bindings which they had made expressly for her. Henry III., who appreciated handsomely-bound books no less than his mother, invented a very singular binding, when he had instituted the Order of "Penitents;" this consisted of death's heads and crossbones, tears, crosses, and other instruments of the Passion, gilt or stamped on black morocco leather, and having the following device, "Spes mea Deus" ("God is my hope"), with or without the arms of France.

It is impossible to associate these superb bindings with the usual and common work executed at the booksellers' shops, and under their superintendence. Some booksellers of Paris and of Lyons, the houses of Gryphe and Tournes, of Estienne and Vascosan, paid a little more attention, however, than others of the fraternity, to the binding of books

which they sold to the reading public; they adopted patterns of dun-coloured calf, in compartments; or white vellum, with fillets and arabesques in gold, fine specimens of which are now very rare.

At this period Italian bookbinding had reached the most complete state of decadence, while in Germany and other parts of Europe the old massive bindings—bindings in wood, leather, and parchment, with fastenings of iron or brass—still held their ground. In France, however, the binders, whom the booksellers kept in a state of obscurity and servitude, had not even been able to form themselves into a guild or fraternity. They might produce masterpieces of their art, but were not allowed to append their names to their works; and we must come down as far as the famous *Gascon* (1614) before we can introduce the name of any illustrious bookbinder.



Fig. 337.—Banner of the Corporation of Printers-Booksellers of Autun.

PRINTING.

Who was the Inventor of Printing?—Movable Letters in Ancient Times.—Block Printing.—Laurent Coster.—*Donati* and *Specula*.—Gutenberg's Process.—Partnership of Gutenberg and Faust.—Schœffer.—The Mayence Bible.—The Psalter of 1457.—The "Rationale" of 1459.—Gutenberg prints by himself.—The "Catholicon" of 1460.—Printing at Cologne, Strasburg, Venice, and Paris.—Louis XI. and Nicholas Jenson.—German Printers at Rome.—*Incunabula*.—Colart Mansion.—Caxton.—Improvement of Typographical Processes up to the Sixteenth Century.

FIFTEEN towns have laid claim to the honour of being the birthplace of printing, and writers who have applied themselves to search out the origin of this admirable invention, far from coming to any agreement on the point in their endeavours to clear up the question, have only confused it. Now, however, after many centuries of learned and earnest controversy, there only remain three antagonistic propositions, with three names of towns, four names of inventors, and three different dates. The three places are Haarlem, Strasburg, and Mayence; the four inventors, Laurent Coster, Gutenberg, Faust, and Schœffer; the three dates which are assigned to the invention of printing are 1420, 1440, 1450. In our opinion these three propositions, which some try to combat and destroy by opposing each to the other, ought, on the contrary, to be blended into one, and combined chronologically in such a manner as to represent the three principal periods of the discovery of printing.

There is no doubt that printing existed in the germ in ancient times; that it was known and made use of by the ancients. There were stamps and seals bearing legends traced the wrong way, from which positive impressions were obtained on papyrus or parchment, in wax, ink, or colour. We are shown, in museums, plates of copper or of cedar-wood, covered with characters carved or cut out in them, which seem to have been intended for the purpose of printing, and which resemble the block plates of the fifteenth century.

Something very much like the process of printing in movable type is

described by Cicero in a passage in which he refutes the doctrine of Epicurus on the creation of the world by atoms: "Why not believe, also, that by throwing together, indiscriminately, innumerable forms of letters of the alphabet, either in gold or in any other substance, one can *print* with these letters, on the ground, the *Annals* of Ennius?" The movable letters possessed by the ancients were carved in boxwood or ivory; but they were



Fig. 338.—Ancient Wood-block Print, cut in Flanders before 1440, representing Jesus Christ after his Flagellation. (Delbecq's Collection, Ghent.)

only employed for teaching children to read, as Quintilian testifies in his "Institutiones Oratoricæ," and St. Jerome in his "Epistles." There was then only wanting a fortunate chance to cause this carved alphabet to create the typographic art fifteen centuries earlier than its actual birth.

At the end of the fourteenth century, at Haarlem, in Holland, wood-engraving had been discovered, and consequently *tabular impression*, with

which the Chinese, it is said, were already acquainted three or four hundred years before the modern era. Perhaps it was some Chinese book or pack of cards, brought to Haarlem by a merchant or navigator, that revealed this expeditious and economical process to the cardmakers and printsellers of the industrious Netherlands. Xylography began on the day when a legend was engraved on a wood-block (Figs. 338 to 340).



Fig. 339.—Facsimile of an Engraving on Wood, by an ancient Flemish Engraver (about 1438); which was inserted, after the manner of a Miniature, in a Manuscript of the Fifteenth Century, containing Prayers for the use of the People. (Delbecq's Collection, Ghent.)

The claim of Haarlem, and of Coster its citizen, to the glories due to the invention of printing and his birthplace, met at first with nothing but incredulity and contempt. The right of Mayence to be considered the birthplace of printing could only be seriously counterbalanced, it was thought, by the claim of Strasburg. The three names of Gutenberg, of Faust, and of Schœffer were already consecrated by universal gratitude. Everywhere, except in Hollaud, the new testimony was rejected; everywhere the new

inventor, whose claim had just been made for a share of the honour, was rejected as an apocryphal or legendary being. But very soon, however, criticism, raising itself above the influences of nationality, took up the question, discussed the account given by Adrian Junius in his "Batavia," which was written in 1572, examined the famous "Speculum" therein described, which no one had yet pointed out, proved the existence of xylographic impressions, sought for those which could be attributed to Coster, and opposed to the Abbé Tritheim (or Trithemius), who had written on the origin of printing from information furnished by Peter Schœffer himself, the more disinterested testimony of the anonymous chronicler of Cologne in 1465, who had learned from Ulric Zell, one of Gutenberg's workmen, and the first printer of Cologne in 1465, this important peculiarity:—"Although the typographic art was invented at Mayence," says he, "nevertheless the first rough sketch of this art was invented in Holland, and it is in imitation of the 'Donatus' (the Latin syntax by Cœlius Donatus, a grammarian of the fourth century, a book then in use in the schools of Europe), which long before that time was printed there; it is in imitation of this, and on account of it, that the said art began under the auspices of Gutenberg."



Fig. 340.—Wood-block, cut in France, about 1440, representing an Image of St. James the Great, with one of the Commandments as a Text. (National Library, Paris, Collection of Prints.)

If Gutenberg imitated the "Donatus," which was printed in Holland before the time he himself printed at Mayence, Gutenberg was not the inventor of printing. It was in 1450 that Gutenberg began to print at Mayence (Fig. 341); but from as early a date as 1436 he had tried to print at Strasburg; and, before his first attempts, there had been printed in Holland—at Haarlem and Dordrecht—"Specula" and "Donati" on wooden boards; a process known by the name of *xylography*

(printing with wooden blocks), while the attempts at *typography* (printing with type) made by Gutenberg entirely differed from the other; since the letters, engraved at first on steel points (*poinçons*), and afterwards forced into a copper matrix, reproduced by means of casting in a metal more fusible than copper the impress of the point on shanks (*tiges*) made of pewter or lead, hardened by an alloy (Fig. 342).

Now, a rather singular circumstance comes to corroborate what was said



Repoſitio quid eſt. ¶ Parlora
tionis que ꝓpoſita alijs par
tibus oratois ſignifcatiõ
eaꝝ aut complet. aut mutat
aut minuit. ¶ Repoſitiõi quot accidũt
Tres. Quo? Caſus tñ. Quot caſus
Duo. Quĩ? Flexus rabitus. Dappo-
ſitiones acti caſus: vt ad. apud. ante
aduerſum. cis. citra. circũ. circa. cõtra.
erga. extra. inter. intra. infra. iuxta. ob
pone. per. ꝑ. ꝓter. ſecũm. poſt. trans.
vltra. preter. ſupra. circiter. vſq; ſecus.
penes. Quõ dicimus mĩ? Ad patrem
apud villa. ante edes. aduerſum inimĩ

Fig. 341.—Facsimile of a Page of the most ancient Xylographic "Donatus" (Chapter on Prepositions), printed at Mayence, by Fust and Gutenberg, about 1450.

by Adrian Junius. A Latin edition of the "Speculum," a folio of sixty-three leaves, with wood engravings in two compartments at the head of each leaf, consists of a mixture of twenty xylographic leaves, and of forty-one leaves printed with type, movable indeed, but very imperfect, and cast in moulds which were probably made of baked earth; an edition of a Dutch "Speculum," in folio, has also two pages in a type smaller and closer than the rest of the text. How are we to explain these anomalies? On the one hand, a mixture

of xylography and typography; on the other, a combination of two different kinds of movable type. My hypothesis is, if indeed the details given by Junius, open to suspicion as they are, be correct, that the dishonest workman who, according to his own account, stole the implements employed in the workshop of Laurent Coster, and who must have acted with a certain amount of precipation, contented himself with carrying off some forms of the "Speculum" just ready for the press. The type employed for twenty or twenty-two pages was sufficient to serve as models for a counterfeit edition, and also for a book of small extent, such as the "Alexandri Galli Doctrinale," and the "Petri Hispani Tractatus." It is probable that the Latin and Dutch editions of the "Speculum" were both entirely composed, set up, and



Fig. 342.—Portrait of Gutenberg, from an Engraving of the Sixteenth Century. (National Library, Paris.)

prepared for the text to be struck off, when the thief took at hazard the twenty-two forms, which he determined to turn to account, at any rate as a model for the counterfeit edition he intended to publish. In cast-iron type, these forms could not have weighed more than sixty pounds; in wooden type not half as much; if we add to these the composing-sticks, the pincers, the galleys, and other indispensable elements of the trade, we shall find that the booty was not beyond the strength of a man to carry easily on his shoulders. As for the press, about that there could be no question, since the impressions produced at Haarlem were made with a pad and by hand, as is still the case with playing-cards.

It remains now to discover who was this John who appropriated the

secret of printing, and took it from Haarlem to Mayence. Was it John Fust

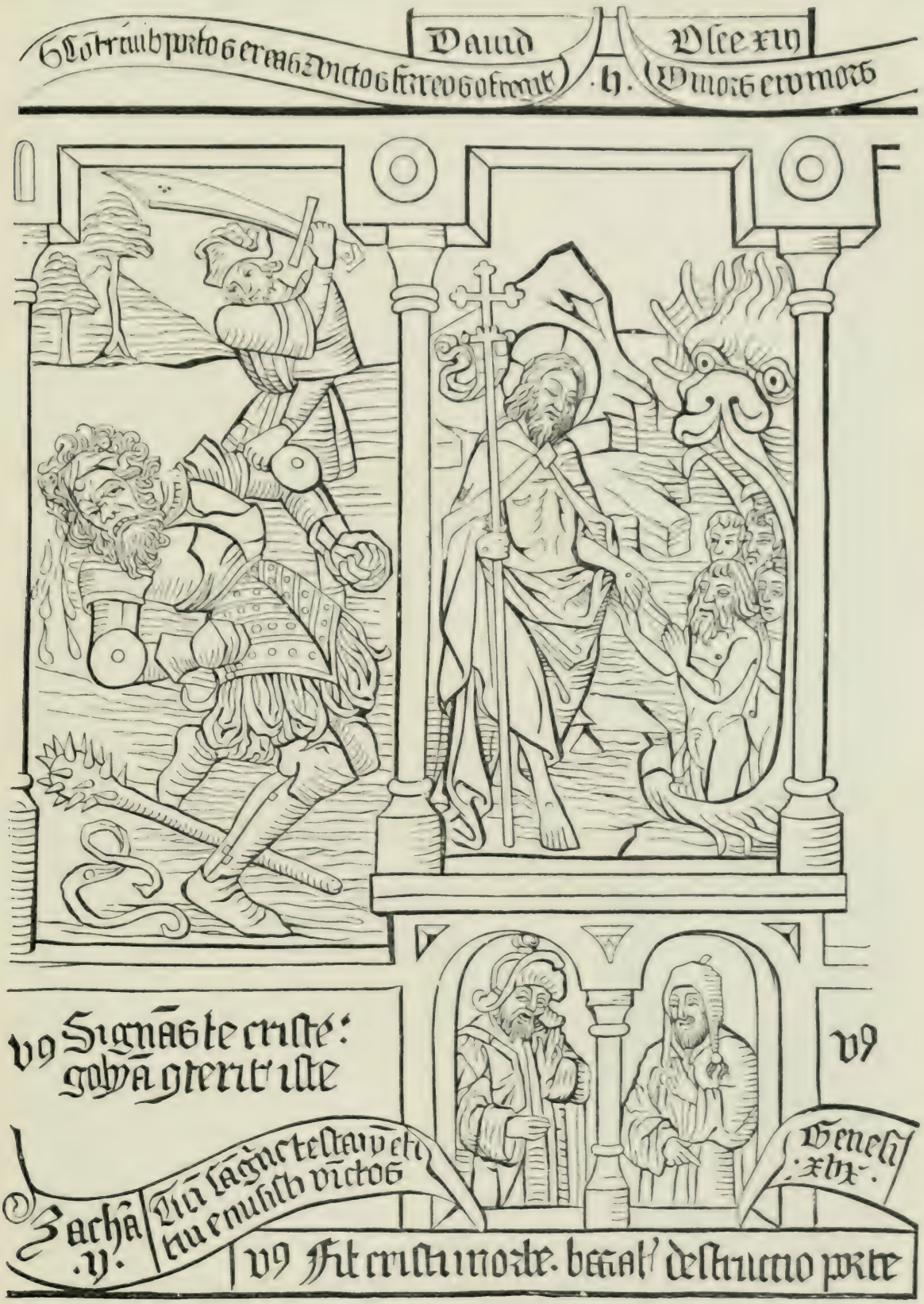


Fig. 343.—Facsimile of the Twenty-eighth Xylographic Page of the "Biblia Pauperum:" representing, with texts taken from the Old Testament, David slaying Goliath, and Christ causing the Souls of the Patriarchs and Prophets to come out of Purgatory.

or Faust, as Adrian Junius suspected? Was it John Gutenberg, as many

Dutch writers have alleged? or was it not rather John Gensfleisch the elder, a relation of Gutenberg, as, from a very explicit passage of the learned



Fig. 344.—Facsimile of the fifth Page of the first Xylographic Edition of the "Ars Moriendi," representing the Sinner on his Death-bed surrounded by his Family. Two Demons are whispering into his ear, "Think of thy treasure," and "Distribute it to thy friends."

Joseph Wimpfeling, his contemporary, the latest defenders of the Haarlem tradition think? The question is still undecided.

The "Speculum," however, is not the only book of the kind which had appeared in the Low Countries before the period assigned to the discovery of printing in Holland. Some of these were evidently xylographic, others show signs of having been printed with movable type of wood, not of metal. All have engravings of the same character as those of the "Speculum," especially the "Biblia Pauperum" ("Poor Men's Bible") (Fig. 343), the "Ars Moriendi" ("The Art of Dying") (Fig. 344), the "Ars Memorandi," ("The Art of Remembering"), which had a very wide circulation. However this may be, Laurent Coster, notwithstanding any progress he had made with his invention, was certainly ignorant of its importance.

The secret was kept faithfully for fifteen or twenty years by the workmen employed in his printing-house, who were not initiated into the mysteries of the new art till they had served a certain time of probation and apprenticeship: a terrible oath bound together those whom the master had considered worthy of entering into partnership with him; for on the preservation of the secret depended the prosperity or the ruin of the inventor and his coadjutors, since all printed books were then sold as manuscripts. But while the secret was so scrupulously maintained by the first Dutch printer and his partners, a lawsuit was brought before the superior court of Strasburg which, though the motives for it were apparently but of private interest, was nevertheless to give the public the key to the mysterious trade of the typographer. This lawsuit—the curious documents relating to which were found only in 1760, in an old tower at Strasburg—was brought against John Gensfleisch, called Gutenberg (who was born at Mayence, but was exiled from his native town during the political troubles, and had settled at Strasburg since 1420), by George and Nicholas Dritzehen, who, as heirs of the deceased Andrew Dritzehen, their brother, and formerly Gutenberg's partner, desired to be admitted as his representatives into an association of whose object they were ignorant, but from which they no doubt knew their brother expected to derive some beneficial results. It was, in short, printing itself which was on its trial at Strasburg towards the end of the year 1439; that is more than fourteen years before the period at which printing is known to have been first employed in Mayence.

Here is a summary of the facts stated before the judge, as we find them in the documents relating to this lawsuit. Gutenberg, an ingenious but poor man, possessed *divers secrets* for becoming rich. Andrew Dritzehen came to him with a request that he would teach him *many arts*. Gutenberg thereupon initiated him into the art of *polishing stones*, and Andrew "derived great profit from this secret." Subsequently, with the object of carrying out *another art* during a pilgrimage to Aix-la-Chapelle, Gutenberg agreed with Hans Riffen, mayor of Lichtenau, to form a company, which Andrew

Dritzehen and a man named Andrew Heilman desired to join. Gutenberg consented to this on condition that they would together purchase of him the right to a third of the profits, for a sum of 160 florins, payable on the day of the contract, and 80 florins payable at a later date. The agreement being made, he taught them the *art* which they were to exercise at the proper period in Aix-la-Chapelle; but the pilgrimage was postponed to the following year, and the partners required of Gutenberg that he should not conceal from them any of the *arts and inventions* of which he was cognisant. New stipulations were entered upon whereby the partners pledged themselves to pay an additional sum, and in which it was stated that the *art* should be carried on for the benefit of the four partners during the space of five years; and that, in the event of one of them dying, *all the implements of the art, and all the works already produced,* should belong to the surviving partners; the heirs of the deceased being entitled to receive no more than an indemnity of 100 florins at the expiration of the said five years.

Gutenberg accordingly offered to pay the heirs of his late partner the stipulated sum; but they demanded of him an account of the capital invested by Andrew Dritzehen, which, as they alleged, had been absorbed in the speculation. They mentioned especially a certain account for *lead,* for which their brother had made himself responsible. Without denying this account, Gutenberg refused to satisfy their demands.

Numerous witnesses gave evidence, and their depositions for and against the object of the association show us a faithful picture of what must have been the inner life of four partners, exhausting themselves and their money in efforts to realise a scheme the nature of which they were very careful to conceal, but from which they expected to derive the most splendid results.

We find them working by night; we hear them answering those who questioned them on the object of their work, that they were mirror-makers" (*spiegel-macher*); we find them borrowing money, because they had in hand "something in which they could not invest too much money." Andrew Dritzehen, in whose care the *press* was left, being dead, Gutenberg's first object was to send to the deceased's house a man he could trust, who was commissioned to unscrew the press, so that the pieces (or *forms*), which were fixed closely together by it, might become detached from each other, and then to place these forms in or on the press "in such a manner that no one might be able to understand what they were." Gutenberg regrets that his servant did not bring him back all the forms, many of which "were not to be found." Lastly, we find figuring among the witnesses a turner, a timber-merchant, and a goldsmith who declared

that he had worked during three years for Gutenberg, and that he had gained more than 100 florins by preparing for him "the things belonging to printing" (*das zu dem Trucken gehoret*).

Trucken—printing! Thus the grand word was pronounced in the course of the lawsuit, but certainly without producing the least effect on the audience, who wondered what was this occult *art* which Gutenberg and his partners had carried on with so much trouble, and at such great expense. However, it is quite certain that, with the exception of the indiscretion, really very insignificant, of the goldsmith, Gutenberg's secret remained undiscovered, for it was supposed it had to do with the *polishing of stones* and the manufacture of *mirrors*. The judge, being

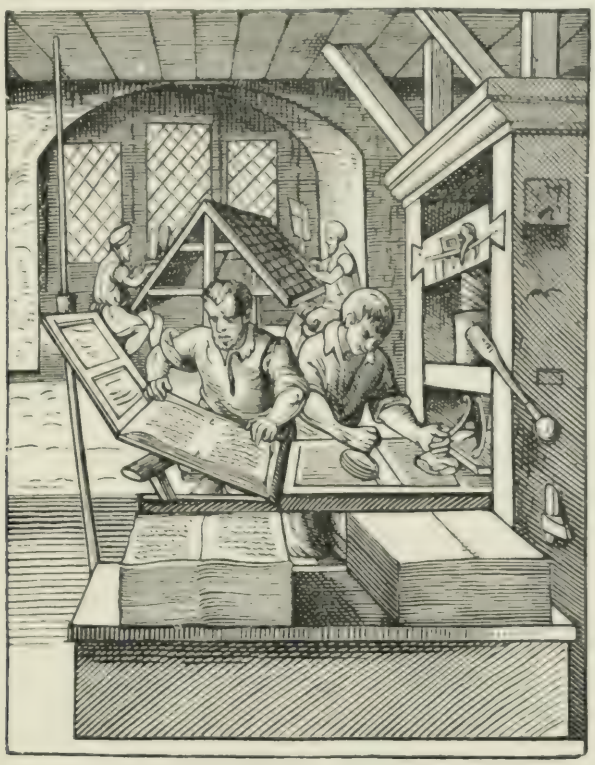


Fig. 345.—Interior of a Printing-office in the Sixteenth Century, by J. Amman.

convinced as to the good faith of Gutenberg, pronounced the offers he made to the plaintiffs satisfactory, decided against the heirs of Andrew Dritzehen, and the three other partners remained sole proprietors of their process, and continued to carry it out.

If we study with some attention the documents relating to this singular trial at Strasburg, and if we also notice, that our word *mirror* is the translation of the German word *speigel* and of the Latin word *speculum*, it is impossible not to recognise all the processes, all the implements made use of in printing, with the names they have not ceased to bear, and which were given to them as soon as they were invented; the forms, the screw (which is not the *printing*-press, for they printed in those days with

the *frotton*, or rubber, but the frame in which the types were *pressed*), the lead, the work, the art, &c. We see Gutenberg accompanied by a turner who made the screw for the press, the timber merchant who had supplied the planks of box or of pear wood, the goldsmith who had engraved or cast the type. Then we ascertain that these "mirrors," in the preparation of which the partners were occupied, and which were to be sold at the pilgrimage of Aix-la-Chapelle, were no other than the future copies of the "Speculum Humanæ Salvationis," an intimation more or less perfect of the famous book of illustrations of which Holland had already published three or four editions, in Latin and in Dutch.

We know, on the other hand, that these "Mirrors" or "Specula" were, in the earliest days of printing, so much in request, that in every place the first printers rivalled each other in executing and publishing different editions of the book with illustrations. Here, there was the reprint of the "Speculum," abridged by L. Coster; there, the "Speculum" of Gutenberg, taken entirely from manuscripts; now it was the "Speculum Vitæ Humanæ," by Roderick, Bishop of Zamora; then the "Speculum Conscienciæ," of Arnold Gheyloven; then the "Speculum Sacerdotum," or again, the voluminous "Speculum" of Vincent de Beauvais," &c.

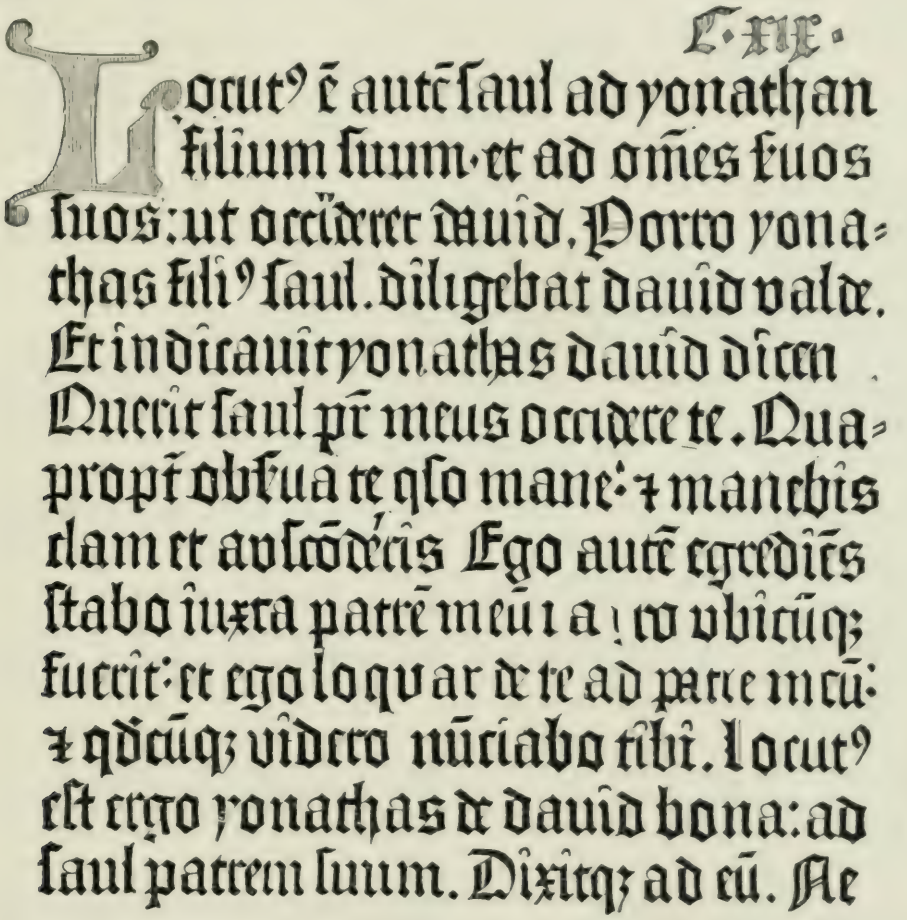
It cannot now any longer be assumed that Gutenberg really made mirrors or looking-glasses at Strasburg, and that those pieces "laid in a press," those "forms which came to pieces," that lead sold or wrought by a goldsmith, were, as they wished it to be supposed, only intended to be used "for printing ornaments on the frames of looking-glasses!"

It results from all this that Gutenberg, "an ingenious man and a man of invention," having seen a xylographic "Donatus," had endeavoured to imitate it, and had succeeded in doing so, the secret being confided to Andrew Dritzehen; that the other *arts*, which Gutenberg at first kept to himself, but which he subsequently communicated to his partners, consisted in the idea of substituting movable type for tabular printing; a substitution that could only be effected after numerous experiments had been made, and which were just about to be crowned with success when Andrew Dritzehen died. We may then consider it as nearly certain that printing was in some sort discovered twice successively—the first time by Laurent Coster, whose small printed books, or books in letterpress, attracted the attention of Gutenberg; and the second time by Gutenberg, who raised the art to a degree of perfection such as had never been attained by his predecessor.

Gutenberg did not succeed with his printing at Strasburg. When he quitted the town, where he left such pupils as John Mentell, Henry Eggestein, he moved to Mayence, and established himself in the house of *Zum Jungen*. There he again printed, but he exhausted his means in experiments, alter-

nately taking up and laying aside the various processes he had employed—xylography, movable types of wood, lead, and cast iron. He used, for printing, a hand-press which he had made on the same principle as a wine-press; he invented new tools; he began ten works and could finish none. At last, his resources all gone, and himself in a state of despair, he was just going to give up the art altogether, when chance sent him a partner, John Fust or Faust, a rich goldsmith of Mayence.

This partnership took place in 1450. Fust, by a deed properly drawn up by a notary, promised Gutenberg to advance him 800 gold florins for the


Cap. xix.

Locut⁹ ē aut̄ saul ad yonathan
filium suum·et ad oñes suos
suos: ut occiderent dauid. Porro yona-
thas fili⁹ saul. diligebat dauid valde.
Et indicauit yonathas dauid dicēs
Quer̄it saul p̄r meus occidere te. Qua-
propt̄ obserua te q̄so mane· & manebis
clam et abscōdēris Ego aut̄ egrediēs
stabo iuxta patrē meū i a\ro vbicūq;
fuerit· et ego loquar de te ad patrē meū·
& q̄dcūq; videro nūciabo tibi. Locut⁹
est ergo yonathas de dauid bona: ad
saul patrem suum. Dixitq; ad eū. Ne

Fig. 346.—Facsimile from the Bible of 1456 (1 Samuel xix. 1—5), printed at Mayence by Gutenberg.

manufacture of implements and tools, and 300 for other expenses—servants' wages, rent, firing, parchment, paper, ink, &c. Besides the "Specula" and "Donati" already in circulation, which Gutenberg probably continued to print, the object of the partnership was the printing of a folio Bible in two columns, in large type, with initial letters engraved on wood. This was a work requiring a great outlay.

A caligrapher was attached to Gutenberg's printing establishment, either to trace on wood the characters to be engraved, or to *rubricate* the printed pages; in other words, to write in red ink, to paint the initials, the capital

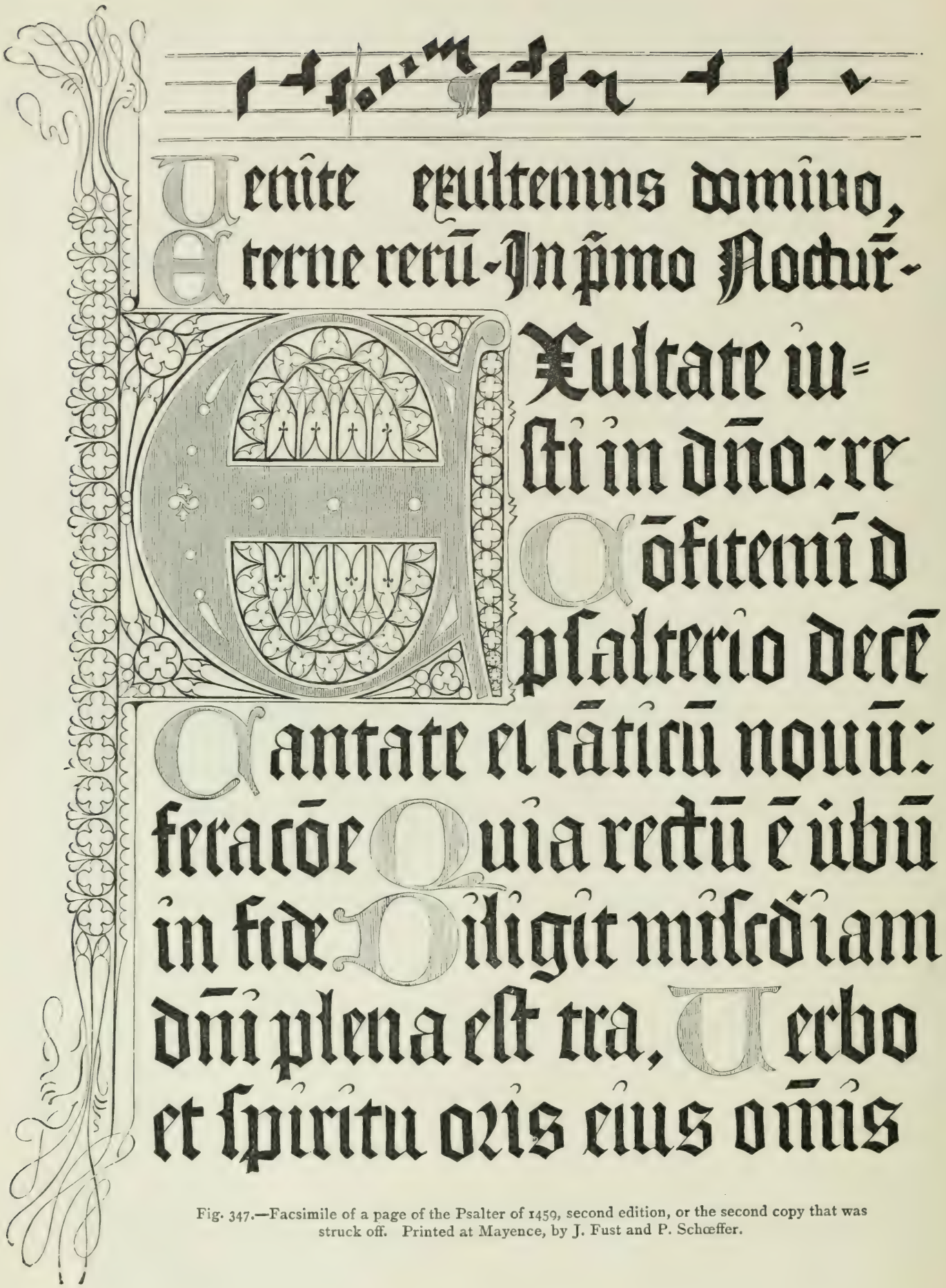


Fig. 347.—Facsimile of a page of the Psalter of 1459, second edition, or the second copy that was struck off. Printed at Mayence, by J. Fust and P. Schœffer.

letters, and the headings of chapters. This caligrapher was probably Peter Schœffer or Schoiffer, of Gernsheim, a small town in the diocese of Darmstadt, a clerk of the diocese of Mayence, as he styles himself, and perhaps a German student in the University of Paris; since a manuscript copied by him, and preserved at Strasburg, is terminated by an inscription in which he testifies that he himself wrote it in the year 1449, in "the very glorious University of Paris." Schœffer was not only a literary man, but was also a man of ingenuity and prudence (*ingeniosus et prudens*). Having entered Gutenberg's establishment, into which Fust had forced him in 1452, to take part in the new association they were then forming, Schœffer invented an improved mould with which he could cast separately all the letters of the alphabet in metal, whereas up to this time they had been obliged to engrave

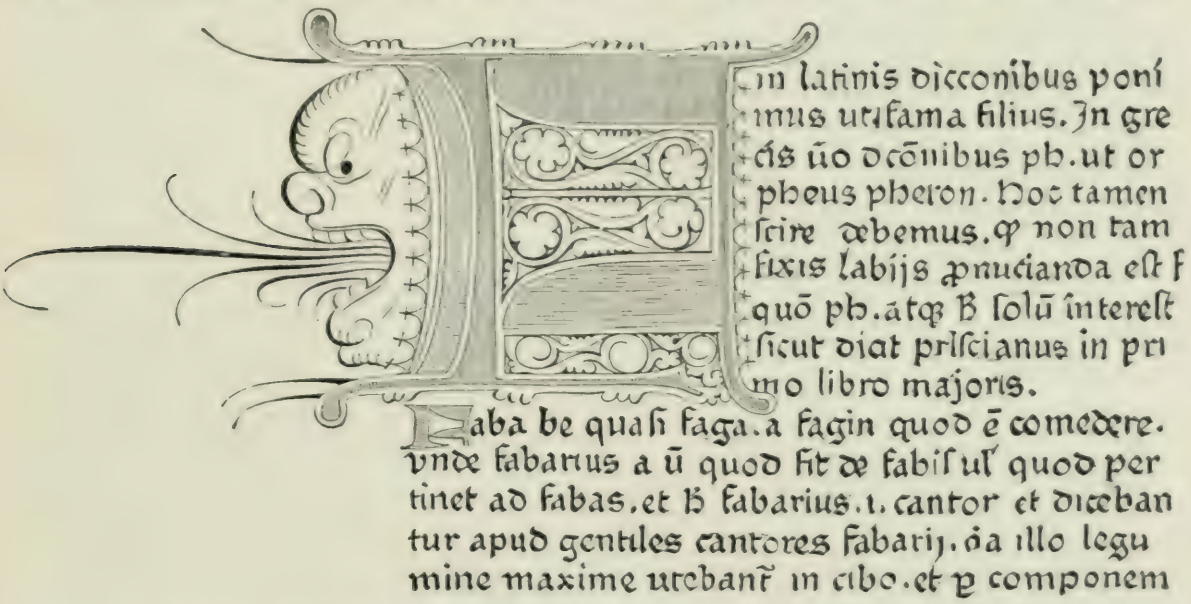


Fig. 348.—Facsimile of the "Catholicon" of 1460, printed at Mayence by Gutenberg.

the type with a *burin*. He concealed his discovery from Gutenberg, who would naturally have availed himself of it; but he confided the secret to Fust, who, being very experienced in casting metals, carried out his idea. It was evidently with this cast type, which resisted the action of the press, that Schœffer composed and executed a "Donatus," of which four leaves, in parchment, were found at Treves in 1803, in the interior of an old book-cover, and were deposited in the National Library of Paris. An inscription in this edition, printed in red, announces formally that Peter Schœffer alone had executed it, with its type and its initial letters, according to the "new art of the printer, without the help of the pen."

That was certainly the first public disclosure of the existence of printing, which up to this time had passed off its productions as the work of caligraphers. It seems that Schœffer thus desired to mark the date and to appropriate to himself the invention of Gutenberg. It is certain that Fust,

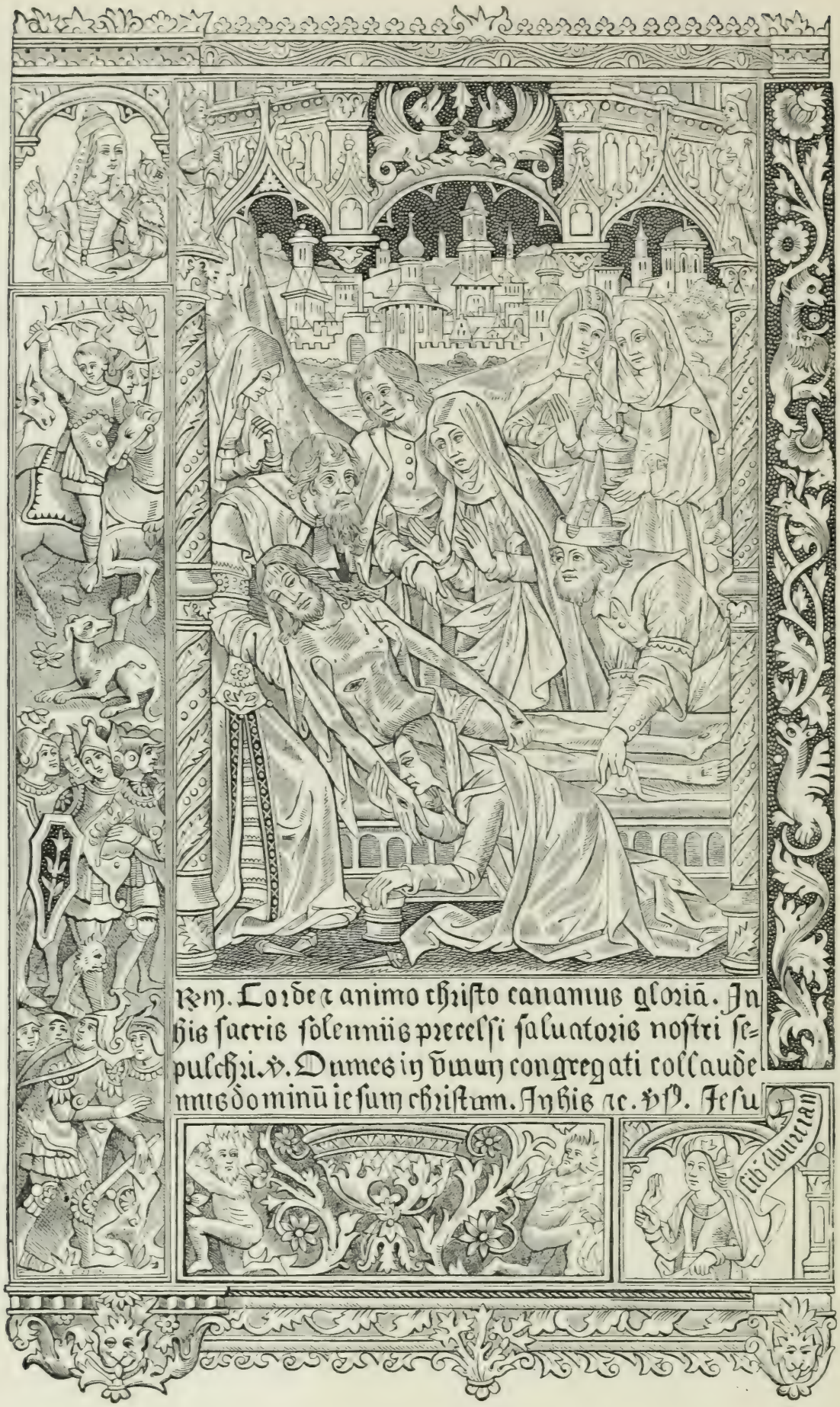


Fig. 349.—Facsimile of a page of a "Livre d'Heures" printed in Paris, in 1512, by Simon Vostre.

allured by the results Schœffer had obtained, secretly entered into partnership with him, and, in order to get rid of Gutenberg, profited by the power which his bond gave him over that unfortunate individual. Gutenberg, summoned to dissolve the partnership and to return the sums he had received, which he was quite incapable of paying, was obliged, in order to satisfy the demands of his pitiless creditor, to give up to him his printing establishment, with all the materials it contained; among them was included this same Bible, the last leaves of which were, perhaps, in the press at the moment when they robbed him of the fruits of his long-protracted labours.

Gutenberg evicted, Peter Schœffer and Fust, who had given Schœffer his daughter in marriage, completed the great Bible, which was ready for sale in the early months of 1456. This Bible, being passed off as a manuscript, must have commanded a very high price. This accounts for the non-appearance on it of any inscription to show by what means the work had been executed; let us add that in any case we may well suppose Schœffer



Fig. 350.—The Mark of Gérard Leeu (1482).



Fig. 351.—The Mark of Fust and Schœffer, Printers. (Fifteenth Century.)

and Fust were not willing to give to Gutenberg a share of the glory which they dared not yet appropriate to themselves.

The Latin Bible, without date, which all bibliographers agree in considering as that of Gutenberg, is a large folio of six hundred and forty-one leaves, divided into two, or three, or even four volumes. It is printed in double columns, of forty-two lines each in the full pages, with the exception of the first ten, which consist of only forty or forty-one lines (Fig. 346). The characters are Gothic; the leaves are all numbered, and have neither *signatures* nor *catchwords*. Some copies of it are on vellum, others on paper. The number of copies which were printed of this Bible may be estimated at one hundred and fifty—a considerable number for that period. The simultaneous publication of so many Bibles, exactly alike, did not contribute less than the lawsuit of Gutenberg and Fust to make known the discovery of printing. Besides which, Fust and his new partner, although they had mutually agreed to keep the secret as long as possible, were the first to reveal it, in order to get all the credit of the invention for

themselves, when public rumour allowed them no longer to conceal it within their printing-office.

It was then they printed the "Psalmorum Codex," the earliest book bearing their names, which fixed, in a manner, for the first time, a date for the new art they had so much improved. The *colophon*, or inscription at the end of the "Psalmorum Codex," announces that the book was executed "without the help of the pen, by an ingenious process, in the year of our Lord, 1457."

This magnificent Psalter, which went through three editions in the space of thirty-three years, without any considerable alterations being made



Fig. 352.—Mark of Simon Vostre, Printer at Paris, in 1531, living in the Rue Neuve Nostre-Dame, at the Sign of St. John the Evangelist.



Fig. 353.—Mark of Galliot du Pré, Bookseller at Paris. (1531.)

in it, is a large folio of one hundred and seventy-five leaves, printed in red and black characters, imitated from those used in the liturgical manuscripts of the fifteenth century. There exist, however, of the rarest edition of this book but six or seven copies on vellum (Fig. 347).

From this period printing, instead of concealing itself, endeavoured, on the contrary, to make itself generally known. But it does not as yet seem to have occurred to any one that it could be applied to the reproduction of other books than Bibles, psalters, and missals, because these were the only books that commanded a quick and extensive sale. Fust and Schœffer then undertook the printing of a voluminous work, which served as a

liturgical manual to the whole of Christendom, the celebrated "Rationale Divinorum Officiorum" ("Manual of Divine Offices"), by William Durand, Bishop of Mende, in the thirteenth century. It suffices to glance over this "Rationale," and to compare it with the coarse "Specula" printed in Holland, to be convinced that in the year 1459 printing had reached the highest degree of perfection. This edition, dated from Mayence (*Moguntiæ*), was no longer intended for a small number of buyers; it was addressed to the entire Catholic world, and copies of it on vellum and on paper were disseminated so rapidly over the whole of Europe as to cause the belief thenceforward that printing was invented at Mayence.



Fig. 354.—Mark of Philippe le Noir, Printer, Bookseller, and Bookbinder, at Paris, 1536, living in the Rue St. Jacques, at the sign of the "Rose Couronnée."



Fig. 355.—Mark of Temporal, Printer at Lyons, 1550—1559, with two devices; one in Latin, "And in the meanwhile time flieth, flieth irreparably;" the other in Greek, "Mark, or know, Time." (Observe the play upon the words *tempus*, καιρός, and Temporal.)

The fourth work printed by Fust and Schœffer, and dated 1460, is the collection of the Constitutions of Pope Clement V., known by the name of "Clementines"—a large double-column folio, having superb initial letters painted in gold and colours in the small number of copies still extant.

But Gutenberg, though deprived of his typographic apparatus, had not renounced the art of which he considered himself, and with reason, the principal inventor. He was, above all, anxious to prove himself as capable as his former partners of producing books "without the help of the pen." He formed a new association, and fitted up a printing-office which, we know by tradition, was actively at work till 1460, the year wherein appeared the

"Catholicon" (a kind of encyclopædia of the thirteenth century), by John Balbi, of Genoa, the only important work the printing of which can be attributed to Gutenburg (Fig. 348), or can bear comparison with the editions of Fust and Schœffer. Gutenburg, who had imitated the Dutch "Donati" and "Specula," perhaps felt a repugnance at appropriating to himself the credit of an invention he had only improved; accordingly, in the long and explicit anonymous inscription placed at the end of the volume, he attributed to God alone the glory of this divine invention, declaring that the "Catholicon" had been printed without the assistance of reed, *stylus*, or pen, but by a marvellous combination of points, matrices, and letters.

This undertaking brought to a happy termination, Gutenberg, no doubt weary of the annoyances incident to business, transferred his printing-office to his workmen, Henry and Nicholas Bechtermuncze, Weigand Spyes, and Ulric Zell. Then, having retired near to Adolphus II., elector and archbishop of Mayence, where he occupied the post of gentleman of the ecclesiastical court of that prince, he contented himself with the modest stipend attached to that office, and died at a date not authentically determined, but which cannot be later than February 24th, 1468. His friend, Adam Gelth, erected in the Church of the Récollets at Mayence a monument to his memory, with an epitaph styling him formally "the inventor of the typographic art."

Fust and Schœffer did not the less continue to print books with indefatigable ardour. In 1462 they completed a new edition of the Bible, much more perfect than that of 1456, and of which copies were probably sold, as were those of the first edition, as manuscripts, especially in countries where, as in France, printing did not already exist. It seems that the appearance in Paris of this Bible (called the Mayence Bible), greatly excited the community of scribes and booksellers, who saw in the new method of producing books, *without the aid of the pen*, "the destruction of their trade." They charged, it is said, the sellers of these books with magic; but it is more probable the latter were proceeded against, and condemned to fine and imprisonment, for having omitted to procure authority for the sale of their Bible from the University, such permission being then indispensable for the sale of every kind of book.

In the meantime the town of Mayence had been taken by assault and given up to pillage (October 27, 1462). This event, in consequence of which the printing-office of Fust and Schœffer remained shut up for two years, resulted in the dissemination over the whole of Europe of printers and the art of printing. Cologne, Hamburg, and Strasburg appear to have been the first towns in which the emigrants established themselves.

When these printers left Mayence, and carried their art elsewhere, it had

never produced any book of classic literature; but it had proved by important publications, such as the Bible and the "Catholicon," that it could create entire libraries, and thus propagate, *ad infinitum*, the masterpieces of human genius. It was reserved for the printing-office of Fust and Schœffer to set the example in that direction, and to print the first classical work. In 1465, Cicero's treatise "De Officiis," issued from the press of these two faithful associates, and marked, as we may say, the commencement of the printing of books for libraries, and with so great success that in the following year a new quarto edition of the treatise was published.

After the capture of Mayence, two workmen, who had been dismissed from the establishment of Fust and Schœffer, Conrad Sweynheim and Arnold Pannartz, carried beyond the Alps the secret which had been confided to them under the guarantee of an oath. They remained for a time in the Convent of Subiaco, near Rome, in which were some German monks, and there they organised a printing apparatus, and printed many fine editions of



Fig. 356.—Mark of Robert Estienne, Printer at Paris, 1536.



Fig. 357.—Mark of Plantin, Printer at Antwerp, 1557.

Lactantius, Cicero, St. Augustine, &c. They were soon invited to Rome, and met with an asylum in the house of the illustrious family of Massimi; but they found an opponent in the city in one of their own workmen from the convent, who had come to Rome and engaged himself as printer to the cardinal John of Torquemada. Henceforward sprang up between the two printing establishments a rivalry which showed itself in unparalleled zeal and activity on both sides. In ten years the greater number of the writings of the ancient Latin authors, which had been preserved in manuscripts more or less rare, passed through the press. In 1476 there were in Rome more than twenty printers, who employed about a hundred presses, and whose great object was to surpass each other in the rapidity with which they produced their publications; so that the day soon arrived when the most precious manuscripts retained any value only because they contained what had not been already made public by printing. Those of which printed editions

already existed were so universally disregarded, that we must refer to this period the destruction of a large number. They were used, when written on parchment, for binding the new books; and to this circumstance may be attributed the loss of certain celebrated works, which printing in nowise tended to preserve from the knife of the binder.

While printing was displaying such prodigious activity in Rome, it was not less active in Venice, whither it seems to have been imported by Nicholas Jenson, whom the Venetians looked on as the inventor of an art with which he had clandestinely become acquainted at Mayence. From the year 1469, however, Jenson had no longer the monopoly of printing in Venice, where John de Spire had arrived, bringing also from Mayence all the improvements Gutenburg and Schœffer had devised. This art having ceased to be a secret in the city of the Doges, great competition arose among printers, who flocked to Venice, where they found a market for their volumes which a thousand ships carried to all parts of the world. At this period important and admirable publications issued from the numerous rival printing establishments in Venice. Christopher Waltdorfer, of

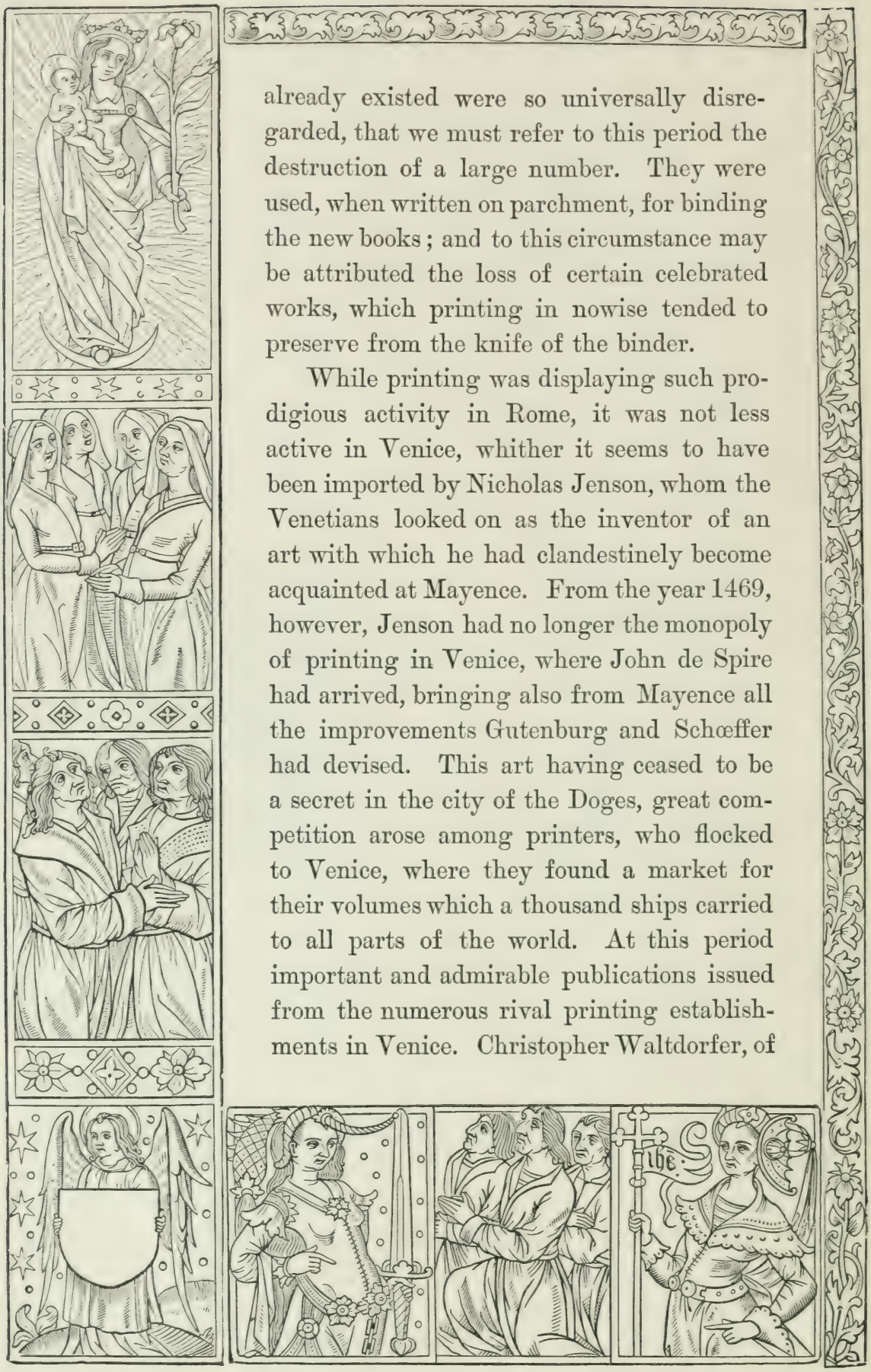
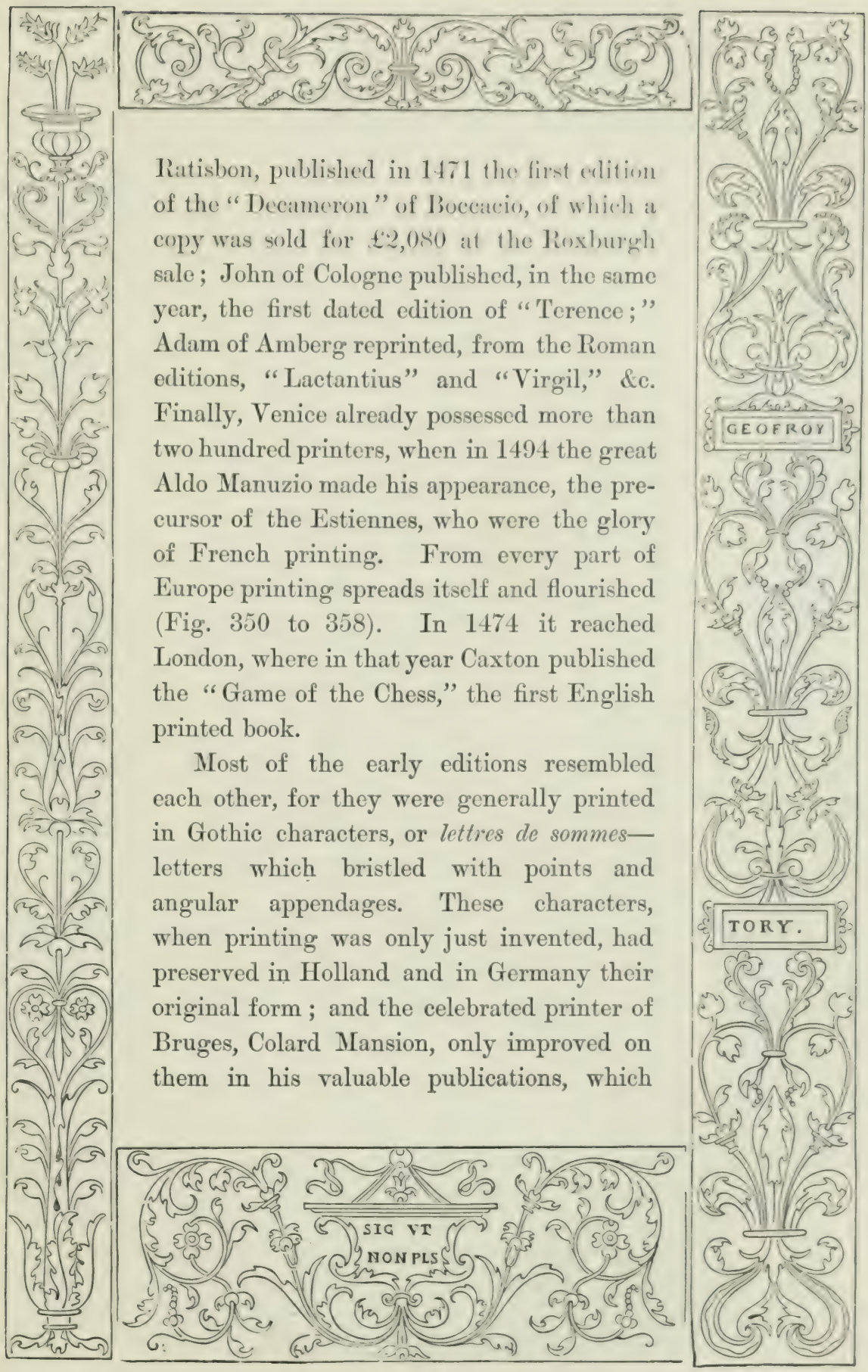


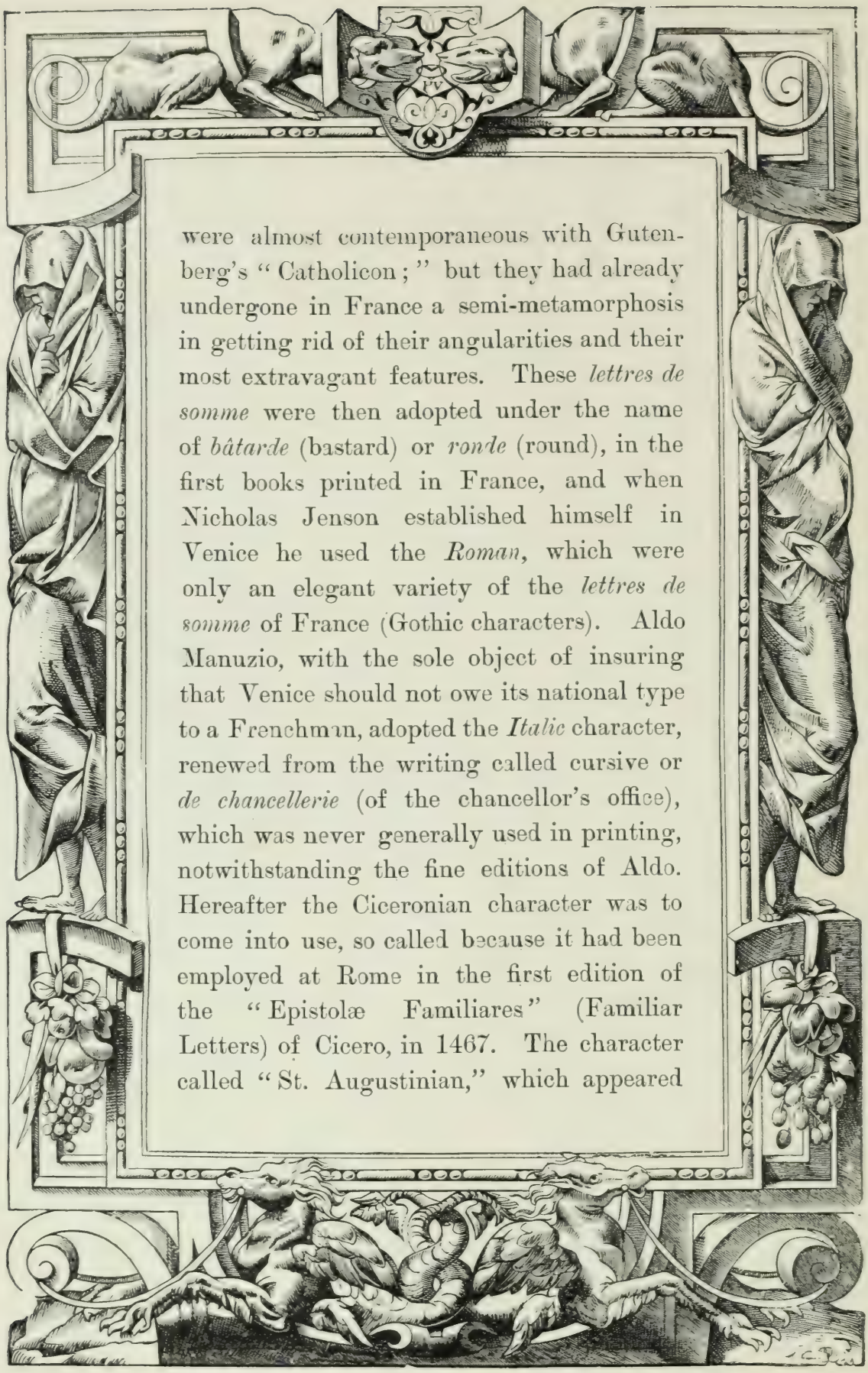
Fig. 358.—Border from the "Livre d'Heures" of Anthony Vérard (1488), representing the Assumption of the Virgin in the presence of the Apostles and Holy Women, and at the bottom of the page two Mystical Figures.



Ratisbon, published in 1471 the first edition of the "Decameron" of Boccacio, of which a copy was sold for £2,080 at the Roxburgh sale; John of Cologne published, in the same year, the first dated edition of "Terence;" Adam of Amberg reprinted, from the Roman editions, "Lactantius" and "Virgil," &c. Finally, Venice already possessed more than two hundred printers, when in 1494 the great Aldo Manuzio made his appearance, the precursor of the Estiennes, who were the glory of French printing. From every part of Europe printing spreads itself and flourished (Fig. 350 to 358). In 1474 it reached London, where in that year Caxton published the "Game of the Chess," the first English printed book.

Most of the early editions resembled each other, for they were generally printed in Gothic characters, or *lettres de sommes*—letters which bristled with points and angular appendages. These characters, when printing was only just invented, had preserved in Holland and in Germany their original form; and the celebrated printer of Bruges, Colard Mansion, only improved on them in his valuable publications, which

Fig. 359.—Border taken from the "Livre d'Heures" of Geoffroi Tory (1525).



were almost contemporaneous with Gutenberg's "Catholicon;" but they had already undergone in France a semi-metamorphosis in getting rid of their angularities and their most extravagant features. These *lettres de somme* were then adopted under the name of *bâtarde* (bastard) or *ronde* (round), in the first books printed in France, and when Nicholas Jenson established himself in Venice he used the *Roman*, which were only an elegant variety of the *lettres de somme* of France (Gothic characters). Aldo Manuzio, with the sole object of insuring that Venice should not owe its national type to a Frenchman, adopted the *Italic* character, renewed from the writing called cursive or *de chancellerie* (of the chancellor's office), which was never generally used in printing, notwithstanding the fine editions of Aldo. Hereafter the Ciceronian character was to come into use, so called because it had been employed at Rome in the first edition of the "Epistolæ Familiares" (Familiar Letters) of Cicero, in 1467. The character called "St. Augustinian," which appeared

Fig. 360.—"Livre d'Heures," by Guillaume Roville (1551), a composition in the style of the school of Lyons, with Caryatides representing female Saints semi-veiled.

later, likewise owes its name to the large edition of the works of St. Augustine, published at Basle in 1506. Moreover, during this first period, in which each printer engraved, or caused to be engraved under his own directions, the characters he made use of, there was an infinite number of different types. The *register*, a table indicative of the quires which composed the book, was necessary to point out in what order these were to be arranged and bound together. After the *register* came *the catchwords*, which, at the end of each quire or of each leaf, were destined to serve an analogous purpose; and the *signatures*, indicating the place of quires or of leaves by letters or figures; but signatures and catchwords existed already in the manuscripts, and typographers had only to reproduce them in their editions. There was at first a perfect identity between the manuscripts and the books printed from them. The typographic art seems to have considered it imperative to respect the abbreviations with

Fig. 361.—Border employed by John of Tournes, in 1557, ornamented with Antique Masks and Allegorieal Personages bearing Baskets containing Laurel Branches.

which the manuscripts were so encumbered as often to become unintelligible; but, as it was not easy to transfer them precisely from the manuscripts, they were soon expressed in such a way, and in so complicated a manner, that in 1483 a special explanatory treatise had to be published to render them intelligible. The punctuation was generally very capricious: here, it was nearly *nil;* there, it admitted only of the full stop in various positions; the rests were often indicated by oblique strokes; sometimes the full stop was round, sometimes square, and we find also the star or asterisk employed as a sign of punctuation. The new paragraphs, or breaks, are placed indifferently in the same line with the rest of the text, projecting beyond it or not reaching to it.

The book, on leaving the press, went, like its predecessor the manuscript, first into the hands of the *corrector*, who revised the text, rectifying wrong letters, and restoring those the press had left in blank; then into the hands of the *rubricator*, who printed in red, blue, or other colours, the initial letters, the capitals, and the new paragraphs. The leaves, before the adoption of signatures, were numbered by hand.

At first, nearly all books were printed in folio and quarto sizes, the result of folding the sheet of paper in two or in four respectively; but the length and breadth of these sizes varied according to the requirements of typography and the dimensions of the press. At the end of the fifteenth century, however, the advantages of the octavo, the 12mo, and the 16mo, were already appreciated.

The paper and ink employed by the earliest printer seem to have required no improvement as the art of printing progressed. The ink was black, bright, indelible, unalterable, penetrating deeply into the paper, and composed of oil-paint. The paper, which was certainly rather grey or yellow, and often coarse and rough, had the advantage of being strong, durable, and was almost fit, in virtue of these qualities, to replace parchment and vellum, both of which materials were scarce and expensive. Publishers contented themselves with striking off on the finest vellum a small number of copies of each edition, never exceeding three hundred. These sumptuous copies, rubricated, illuminated, bound with care, resembling in every respect the finest manuscripts, were generally presented to kings, princes, and great personages, whose patronage or assistance the printer sought. Nor was any expense spared to add to typography all the ornaments which wood-engraving could confer upon it; and from the year 1475, numerous illustrated editions, of which an example was found in the early "Specula," especially those printed in Germany, were enriched with figures, portraits, heraldic escutcheons, and a multitude of ornamented margins (Figs. 358 to 361). For

more than a century the painters and engravers worked hand in hand with the printers and booksellers.

The taste for books spread over the whole of Europe; the number of buyers and of amateurs increased every day. In the libraries of princes, scholars, or monks, printed books were collected as formerly were manuscripts. Henceforth printing found everywhere the same protection, the same encouragement, the same rivalry.



Fig. 362.—Mark of the Elzevirs, Printers at Leyden, 1620.

MUSIC.

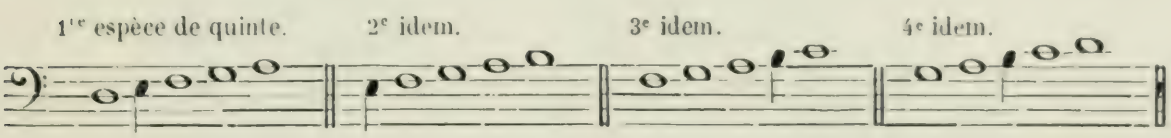
Music in the Time of the Emperors.—Christian Music in the Fourth Century.—St. Ambrose's Plain Chant.—The Music of Northern Peoples.—The Gregorian Musical Reform.—Religious and National Music under the Kings of the Franks.—Divisions (*Neumæ*) and old Notations.—The Scale invented by Guy d'Arezzo.—Diaphony and Descant.—Minstrels and Trouvères.—The Confraternity of Minstrels at Paris.—Dramatic Music.—Hrosvitha and Adam de la Hale.—Musicians in the Fourteenth and Fifteenth Centuries.—René d'Anjou and other princely Musicians.—Printers of Music.—Music at the Court of the Valois.—Protestant Music.—Ballet Music.



ETTERS of naturalisation were soon obtained for Greek music in ancient Rome, which had no national music, and which readily adapted this foreign music, in the time of the emperors, to all the usages of public and private as of civil and religious life. Art remained Grecian, and most of the singers and composers came from Greece to take service under the wealthy patricians. The various forms of Latin prosody were but thinly disguised beneath a veil of Ionic, Doric, and Lydian melodies, even when the Christians waged a relentless war upon profane music, not only as an accompaniment of the rites of the pagan religion, but as played in the circus and other popular resorts to excite the brutal passions of the multitude, or at the nocturnal orgies of the aristocracy. The decadence and the disappearance of Greek music in Italy and the West date from the reign of Theodosius; and when the games of the capitol were put down, about the year 384, the Greek musicians either returned to the East or abandoned their art. Church music, which alone survived, and which is, in fact, a sort of chant derived from the solemn and monotonous declamation of the sacred hymns of paganism, became the invariable accessory of the public celebration of the Christian religion; but there can be no doubt that it was practised in a very rude form; that clergy and congregations alike were ignorant of the first elements of the art. Pope Sylvester I. (A.D. 330) was so struck by the

insufficiency of the new musical system adopted by the primitive Church that he founded singing-schools at Rome, and in several towns where the Catholic religion had implanted itself. The clerks were thus taught to sing before being ordained priests. These schools increased in number, and soon became a part of every cathedral. St. Ambrose, Bishop of Milan, who had just built his cathedral, and was anxious to associate it with all the pomp of which Christianity could boast, himself arranged the pitch of ecclesiastical singing and the mode of execution for hymns, psalms, and anthems. He simplified musical teaching in the choristers' schools by suppressing the three systems of grave, medium, and acute, and by substituting for all the scales gamuts of the four principal tones which represented the ancient scales of Greek music—Dorian, Phrygian, Eolian, and Mixolydian.

At this distant period church singing was only known—and that in a very primitive form—in a few dioceses. Pope Damasus (A.D. 371) was the first to introduce into the Church of Rome the custom of chanting the Psalms, which had before been recited aloud by the congregation. There is reason to believe that these first attempts at plain chant were improved upon and multiplied, though slowly and not without difficulty, for the barbarian



invasions succeeded each other at rapid intervals in Western Europe, and interfered with the solemn celebrations of the Catholic religion. Chanting, however, never ceased being the principal feature in these celebrations; and Gregory of Tours relates that the baptism of Clovis, at Rheims, was accompanied by music, which produced such an impression upon the royal convert that when he afterwards signed a treaty of peace with Theodoric, King of the Ostrogoths, he insisted upon that prince sending him from Italy a good band of music and an accomplished lute-player.

The Franks, no doubt, like other invading and conquering peoples, especially those who came from the north, such as Celts, Welsh, Danes, &c., had a common sort of national music, differing altogether from Church music. This common music, dating from the most remote antiquity, was merely rhythmical music, which served for the popular songs, regulated by a sort of savage harmony, to the accompaniment of stringed instruments, such as the harp or crawth (crotta), which the Celtic bards played with marvellous skill (see Figs. 364 and 365). This music generally accompanied national songs tinged with melancholy. The time was always slow and uniform, and their musical scale seems to have been made for the minor mode; the quick time

and major mode were reserved for war, table, and dancing songs. This music, imported by the Northern tribes into the lands which they conquered and settled in, remained popular for a long time without making any progress from an artistic point of view, and without becoming subject to fixed and intelligible rules. Religious music, on the contrary, was in the way of once more becoming a fixed science, like Greek music, when Pope Gregory I. inaugurated his musical reform by collecting the fragments of the melodies

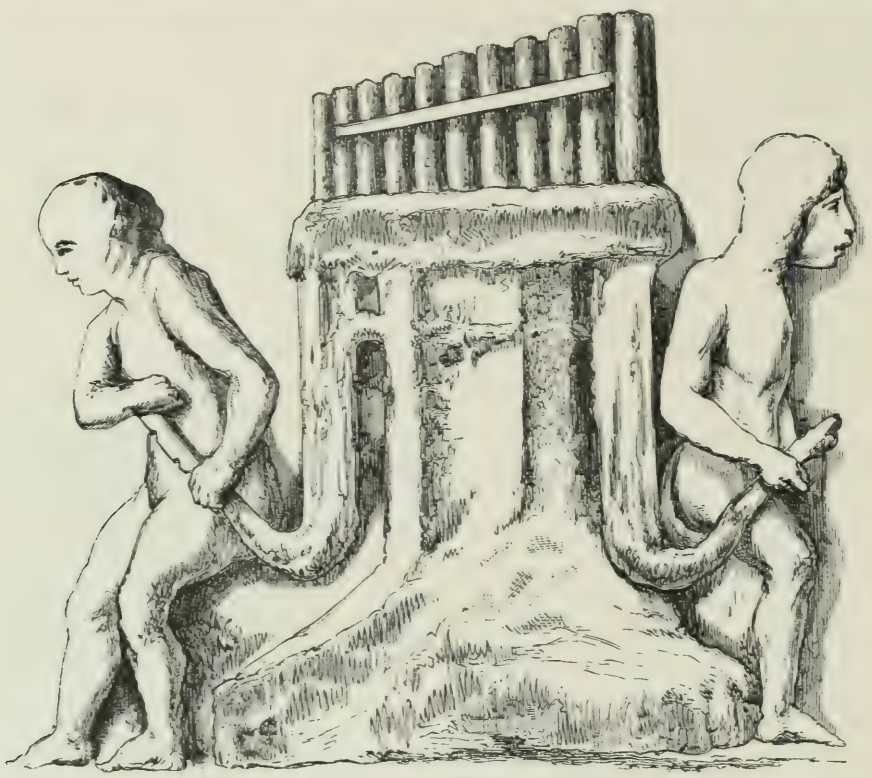
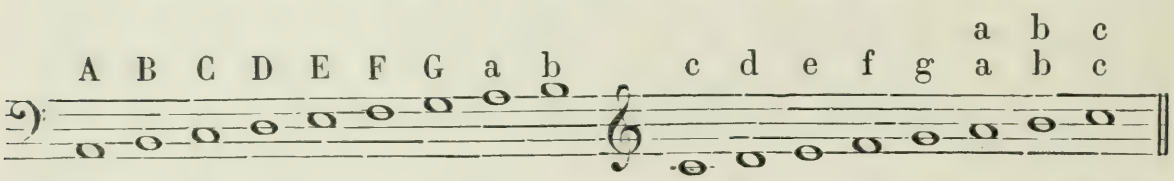


Fig. 363.—Pneumatic Organ, Fourth Century. After a sculpture of the Gallo-Roman epoch, preserved in the Arles Museum.

of the primitive Church in order to form a book of anthems, and by modifying the four tonal scales of St. Ambrose. These four scales he divided into eight, so that the general scale of the sounds contained in the eight notes extended from the *la* grave to the *sol* of the second octave. He made use of the old Latin notation to represent the tones, and he employed the first seven letters of the Roman alphabet, in capitals and small print, as the signs of the two octaves. This notation was as follows:—

La,	Se,	Ut,	Re,	Mi,	Fa,	Sol,	La,	Se,	Ut,	Re,	Mi,	Fa,	Sol.
A,	B,	C,	D,	E,	F,	G,	A,	B,	C,	D,	E,	F,	G.



Ecclesiastical music, executed in the churches by the clergy with the congregation joining in at intervals, was always accompanied by wind,

and stringed instruments; that is to say, by trumpets, organs, and harps; but the main harmony of the Church music resulted from the time and rhythm of the rhymed verses which were used as hymns. Thus Chilperic I., who prided himself upon being a poet and musician, added four letters to the alphabet in order to facilitate the rhyme and soften the singing. He cared more for music and poetry than for State affairs, and all the Merovingian princes were, like him, passionately fond of vocal and instrumental music. At the baptism of Clotaire II., son of Chilperic, his uncle Gontran, King of Burgundy and Orleans, convoked in the latter city a number of bishops, who arrived with an escort of choristers and musicians, in order to add to the splendour of the ceremony. There was still a lack of theoretical knowledge about Church music, the only form of music which enjoyed any popularity;



Fig. 364.—Eleven-stringed Harp, Tenth Century. Saxon Psalter. (MS. in British Museum.)



Fig. 365.—Thirteen-stringed Harp, Tenth Century. (MS. at Cambridge University.)

but it had already produced many remarkable songs, which the most illustrious princes and prelates were proud to have composed.

Dagobert I., who founded monasteries and built churches, was a warm patron of sacred music, and he was particularly fond of chanting. While at vespers one afternoon in the Abbey of Rumilly, he was struck by the beautiful voice of a nun, and, after ascertaining who she was, he fell so much in love with her that he put away his queen, Gomatrude, and married her. The kings of the Carlovingian dynasty were also very generous protectors of Church music, and it is almost certain that Pepin was the first French king who had a full choir attached to his chapel and placed under the authority of a master, or *minister*, who was afterwards called *menestreux* in the language of the eleventh century. The St. Ambrose scale, altered no doubt by barbarian superfluities, had held its own in the Church of the Gauls; and Charlemagne,

who set up to be his own chapel-master, at first declared in favour of the old Ambrosian chant, as it had been transformed by the usage of four centuries, against the Pope's own chapel-master. He soon abandoned it, however, after he had heard mass chanted in the Gregorian mode; and when he left Rome he took with him a certain number of Italian choristers, whom he specially attached to Tours Cathedral, where they formed a school of plain chant, in which the method of St. Gregory was taught. It was thus, as the Chronicle of the Monks of Angouleme (Duchesne's "History of France," vol. ii. p. 73) says, that the Romans taught the French choristers the art of *organizing* (*in arte organandi*)—that is to say, of commingling sympathetically the sounds of voices and instruments; for what was termed *organum* was nothing more than a song composed of symphonies, and intended to imitate the different stops of an organ. Music was also taught in the school of Charlemagne's palace, but it was taught in a scholastic manner, as one of the branches of arithmetic, and it was only in the school attached to Tours Cathedral that it was taught practically. It may be said that barred music existed at that time, for the monk Scotus Erigena, who was one of the masters at the Palatine School in the reign of Charles the Bald, says, in his treatise upon the Divine Nature, "An organic chant is composed of qualities and quantities which seem incoherent and impossible of association when they are considered separately, but which can nevertheless be adapted to one another, and put together according to the rules of musical art, so as to produce a certain natural charm upon the ear." This passage, which different *savants* have interpreted in different ways, seems to us to apply more especially to the vulgar music, of which the time and rhythm were the principal elements. This vulgar or profane music, which was the true national music of barbarian people, was more the antagonist than the rival of Church music, which eventually won the day by the aid of the secular authority, which forbade the ancient songs devoted to love, dancing, and festivity. Even the warlike songs, commemorating military achievements and historical events, were with difficulty saved. Charlemagne formed a collection of the songs, which, unfortunately, is not extant; and all that have been discovered are somewhat posterior to his reign, but similar no doubt to those which he sought to hand down to us. The only historical song of an earlier period which has been preserved is one which was composed in rhymed prose and cadence to celebrate the victory won by the Saxons (622). Hildegaire, Bishop of Meaux, in his "Life of St. Faro," says, "A popular song was composed after the victory, and this song, on account of its simplicity, went from mouth to mouth; the women sang it while dancing, and keeping time with their hands."

Historical songs were composed sometimes in Latin, sometimes in the

vulgar tongue, and sometimes in a mixture of both. Thus we have the song in the Teutonic tongue, which was composed in honour of Louis the German after his victory over the Normans in 881; but the music of this song, which must first have been written in Latin, as it was sung not only on the banks of the Rhine, but in the French provinces menaced by the German invasion, has not been preserved to us. It is supposed, with much show of reason, that the music of the national songs was often adapted to fresh words, either moral or religious, so that the people, who knew it by heart, might be able to go on singing it without disobeying the civil and ecclesiastical laws. This common music, the tonality of which was wholly different from that of sacred

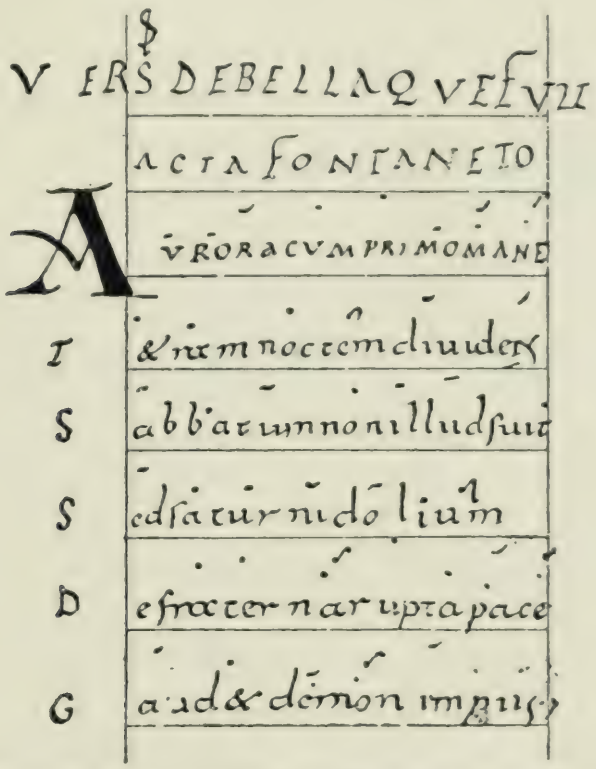


Fig. 366.—First stanza of the popular Song on the Battle of Fontanet, in Burgundy. (MS. in National Library, Paris, No. 1154.)

music, was much more powerful and extensive in its mode of execution. Hucbald, a monk of St. Amand, in Flanders, at the end of the ninth century, speaks as follows of the common music of that day: "The players of the lute, the flute, and other instruments, as well as the profane men-singers and women-singers, do all they can to sing and play well, in order to charm the ears of their audiences." There can be no doubt that the ancient hymns of the Church were songs composed by the Christian poets to compete with the secular songs, and that they adopted as much as possible popular melodies to these hymns, which were originally intended to be sung at pious gatherings apart from the ceremonies of the Church. Among the historical songs which have been discovered, with their original music, in the manu-

scripts of the ninth century, may be mentioned one relating the battle of Fontanet, or Fontenailles, in 841, composed by a Frank named Angelbert (see Fig. 366); the song upon the death of Eric of Frioul in 799, attributed to Paulinus, Patriarch of Aquileia, who died at the end of the ninth century; the lament on the death of Charlemagne, which may be attributed to a contemporary monk named Columban (see Fig. 367); and some other songs and ballads of the same epoch. In these melodies, according to

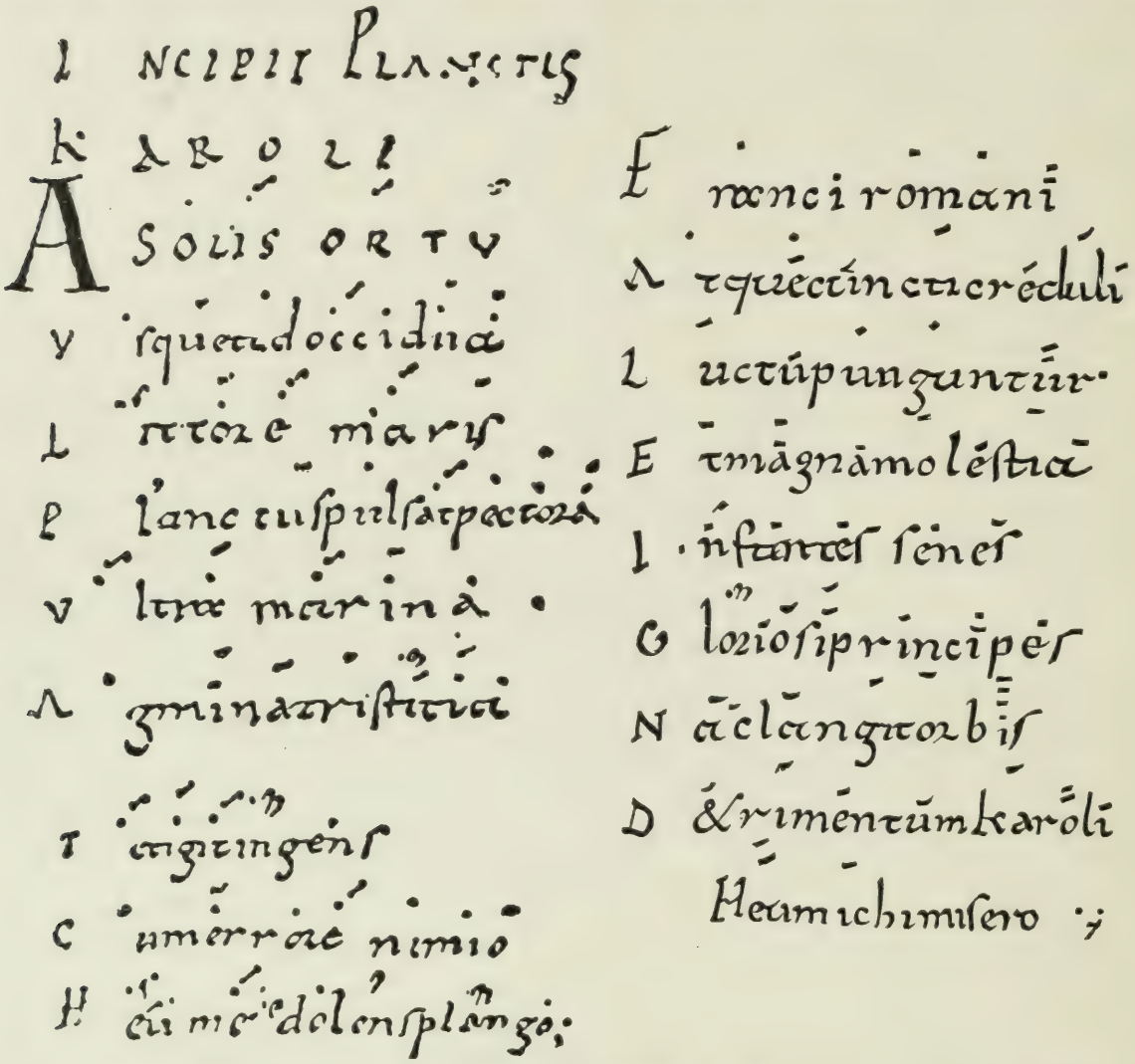


Fig. 367.—Lament composed shortly after the Death of Charlemagne, probably about 814 or 815, and attributed to Columban, Abbot of St. Tron. (MS. in National Library, Paris, No. 1154.)

Coussemaker, the tonality is very similar to that of modern music, "which," he says, "has only one tone, properly speaking, for the major tone differs only from the minor by the tierce, which is major in the one, minor in the other. It further happens that, by a sort of law of attraction inherent in the disposition of the sounds of this scale, the ear demands a pause in the tune at certain notes." Such was the character of common music in the ninth and tenth centuries. We also possess some airs of common music belonging to this, if not perhaps to an even earlier epoch, composed for the Odes of Horace,

which were still sung in the tenth century, as they had been in the time of the Roman emperors, and in these airs the melody nearly always brings out the long and short notes of Latin poetry.

Musical notation, invented by St. Gregory, for Church singing did not consist solely of the seven letters of the alphabet in two characters, for to St. Gregory is also ascribed the invention of the Neumæ (divisions), which were employed throughout Europe up to the end of the twelfth century, notwithstanding the simultaneous use of the seven capitals for musical notation, and which have continued to be a sort of musical hieroglyphics, in despite of several ingenious attempts at interpretation made by distinguished *savants*—last of all by Fétis, who has summed up and perfected the labours

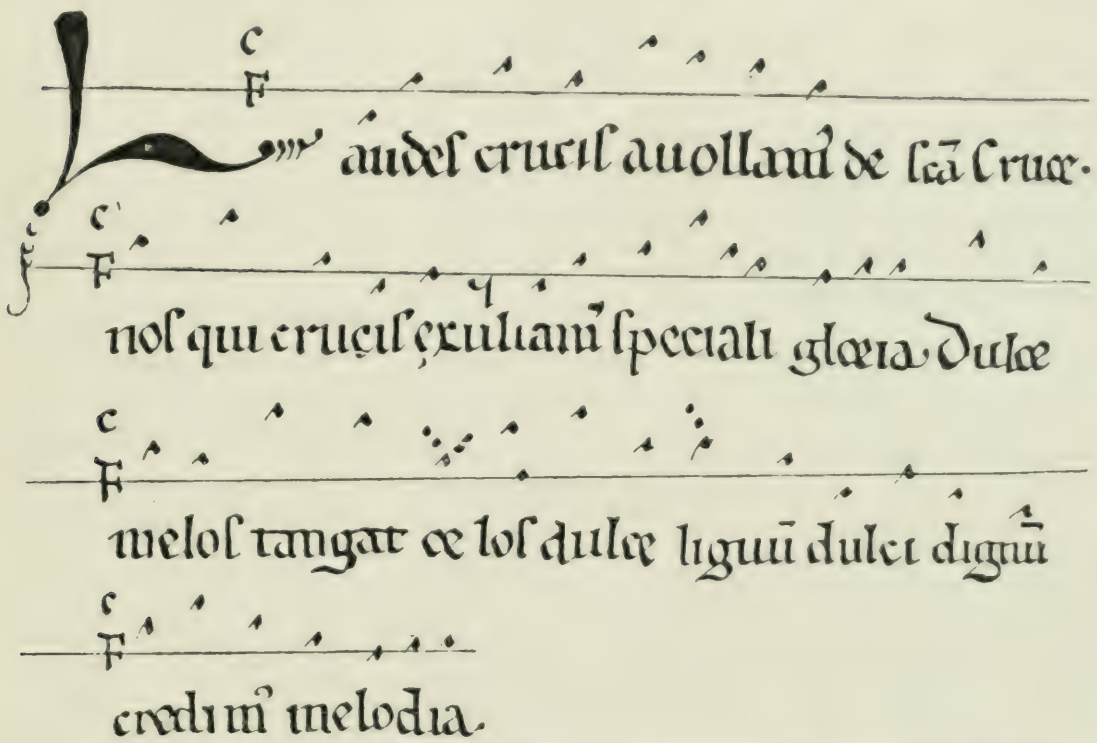


Fig. 368.—Beginning of the Hymn sung at the Festival of the Holy Cross. (MS. of the Twelfth Century.)

of his predecessors in his two treatises, the "Biography of Musicians" and the "General History of Music." If the Neumæ were not employed before the middle of the seventh century, they would, therefore, be subsequent to the death of St. Gregory, which took place in 604. The musical signs have unquestionably been imitated from the graphic signs which formed a sort of abbreviated writing among the Romans, known by the name of *Nota Romana*, or Tironian notes, because to a certain Tiro, freedman and secretary of Cicero, was attributed the improvement effected in this mysterious writing. The principal difficulty in the way of a regular and complete explanation of the Neumæ is their infinite variety, for in the space of five centuries they have been subjected to the most startling metamorphoses,

according to the period, the country, and the system of the musicians. Coussemaker is of opinion that the signs formed like commas, dots, and horizontal or straight lines represented the sounds, and the signs formed like hooks, or twisted and continued lines, the groups of sounds composed of various intervals. There is a difference of opinion even as to the etymology of the word. Many *savants* say that it is derived from the Greek word πνεῦμα, breath or sound, though it is probable that the Latin *nomen* is its right derivation, for *Neuma* named or designated the note (see Fig. 368).

The notation by means of Neumæ was not perhaps so defective as it was for a long time believed to be; and it had this advantage over the system of notation by letters, that it represented the degree of intonation by the elevation or lowering of the sign, which enabled the eye to see what the voice had to execute. Errors, however, frequently occurred, owing to the negligence or unskilfulness of the copyist. The Neumæ, like the Tironian tachygraphy, had for their basis the comma and the full-stop, which represented the accents of sounds as well as of words, for the accent is neither more nor less than a modification of the voice in regard to tone and duration of notes. The simple Neumæ were, unfortunately, so complicated by the various signs employed that this system of notation became quite incomprehensible, and John Cotton, a musical writer of the twelfth century, referring to the obscurity of the Neumæ, said, "If one rarely finds three persons agreed as to the same song, still more rare is it to find a hundred in agreement as to the value of the Neumæ."

The shape of the Neumæ in course of time became more distinct, and this was the origin of the square note, which took the place of these distorted and running passages. Guido or Guy d'Arezzo, in the beginning of the eleventh century, was the first inventor of the system of placing the Neumæ in straight lines, so that each sign might have its appointed place. It was he, too, who instead of a single line of notation placed two, one red and the other yellow or green, upon the top of one another, the latter reserved for the *ut* note, and the former for the *fa* note. He next added two other lines traced with a dry point upon vellum, the first between the two coloured lines, and the second below the yellow or green line. The tonality was henceforward regulated by letters, which answered the purpose of keys, and the regular Neumæ took the place of the ancient ones, which had become so irregular as to be unintelligible. It was from this time that the treatises of music and the books of liturgy were compiled with the large square notes, extending over four or five lines, for the number of lines which went to make up the stave was not yet definitely fixed (see Fig. 369). It was not, however, for a century after the time of Guy d'Arezzo that the system which has been

erroneously attributed to him made its appearance. This system may be represented by the shape of the left hand, the articulations being made to characterise the notes of the scale by means of a very complicated mechanism, which necessitated the absence of the note *si* in this incomplete scale.

The invention of the six-note scale was attributed to Guy d'Arezzo, because he had given as a copy of the tonal order of these six notes the first six verses of an old hymn of St. John the Baptist, in which the syllables *ut, re, mi, fa, sol, la,* corresponded with this group of notes:—

Ut queant laxis
*Re*sonare fibris
*Mi*ra gestorum
*Fa*muli tuorum,
*Sol*ve polluti
*La*bii reatum,
Sancte Johannes.

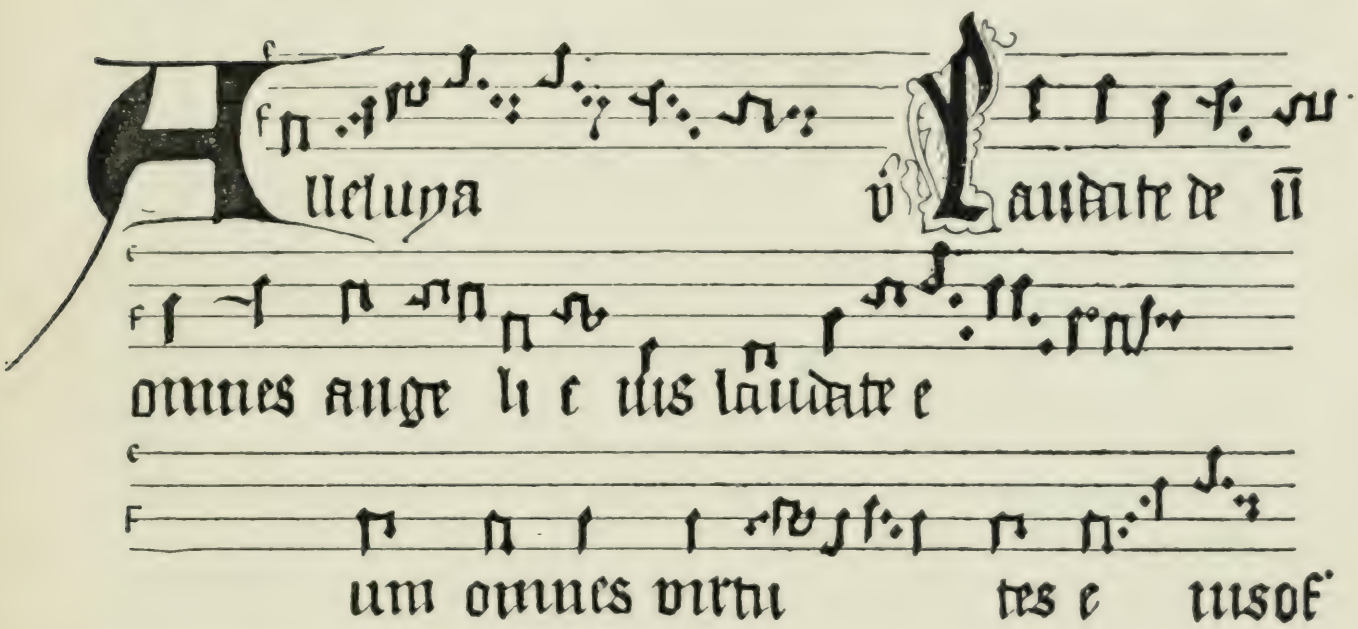


Fig. 369.—Specimen of Notation upon four lines, after a Lombardo-German Gradual of the Fourteenth Century.

The choristers, when they sang this hymn at the mass of St. John the Baptist, increased by one degree the intonation of the first syllable of each verse, and these six syllables were soon adopted to designate the notes of the scale. With regard to the note *si*, which was not admitted into the scale until the seventeenth century, it was replaced by lights and shades of expression which were not nearly so barbarous as the names which were given them. As early as the ninth century there were musicographists who wrote obscure and learned treatises upon the theory of music, which was a field for the most diffuse dissertation. One of these general definitions of music ran, according to an old Latin MS. quoted by Du Cange, as follows: "Music is the art of modulating sounds; it consists of song, and comprises three parts:

harmony, which distinguishes the grave and acute sound; rhythm, which is good or bad according as the words come out; and metre, which measures the time according to the different kinds of verse." Isidore of Seville, in his treatise on music, written in the twelfth century, says, "Harmonious music is a modulation of the voice; it is also a concordance of several sounds and their simultaneous union. Symphony is the consonance of grave and acute notes either in vocal or instrumental music. The reverse of the symphony is diaphony, which consists of discordant and dissonant notes;" and his definition of harmony does not give a very favourable idea of what it was in those early times.

Nevertheless, although the regular diaphonies, which were formed at that time by the means of harmonic differences of pitch, must have produced very hard and grating sounds, the sequences of fifths, fourths, and octaves must have had a strange and not altogether displeasing effect upon the ear. Hucbald described diaphony as the harmonious singing of dissimilar notes heard at the same time; and he gives several specimens of diaphony in which the unison, the second, the tierce minor, the fourth, and the fifth are used together, and in which one finds the three times—direct, oblique, and counter—which constitute one of the principal elements of modern music. Moreover, the diaphony, also called *organum*, because it continued all at once the various accents of the human organ, was only made use of in plain chant: it needed at least two singers to execute it, so that while one was singing the principal melody, the other circulated round it, if such an expression may be used, the two voices meeting at each pause, and joining at the unison or the octave. In addition to the diaphony, there existed, towards the close of the eleventh century, another harmony named the *discantus*, from the Latin words *dis* (two) and *cantus* (song), which had a great influence upon the former. It was a sort of harmony improvised by those who were able chanters from the book, and it was consequently full of skips from one note to another, which was very much in opposition to the general system of Church music. This will explain how it was that the *discantus*, which long survived diaphony, was soon introduced into secular music, when the Church choristers had formed the bad habit of embellishing the chant and the double chant so extravagantly, each one improvising his own part at the lectern, and trying to outdo his fellow. The abuse was such that several popes published bulls to repress it and maintain the integrity of ecclesiastical chanting. Pope John XXII., nevertheless, in 1322, intimated that the choristers were occasionally to be allowed, especially at high festivals, to employ consonances and concords as accompaniments of the Gregorian chant, in order to give it more colour and brilliancy. It was thus that simultaneous sound music went on from diaphony to *discantus* to

the fourteenth century, when counterpoint was founded upon the principles of diatonic harmony.

Music was still taught in the schools after the traditions of Boethius and Scotus Erigena, and formed part of the scholastic course, ranking second among the liberal arts, immediately after astronomy, and before geometry. As may be supposed, this mode of teaching did not contribute to the progress of the art. All the learned men who had written about music, except Guy d'Arezzo, had but a theoretical knowledge of it. The celebrated Francis of Cologne, John Cotton, Jean de Muris, Aurelian of Réomé, Remy of Auxerre, and a host of others, were more of dialecticians than musicians, and they left some very valuable treatises upon the musical science of their day. It may be noted, though, that Abélard was the composer of the melodies of his Latin songs, which he sang himself with great talent; and when Héloïse became Abbess of Paraclete she wrote to him, "You had two gifts more particularly which would have at once won you the heart of any woman: that of speech and that of song. No other philosopher ever possessed them to such an extent. It is by means of these talents that, as a relaxation from your philosophical studies, you have composed those love songs, which, repeated everywhere by reason of their charms both of poetry and music, have caused your name to be in every mouth; so much so that the softness of the melody caused even unlearned people to remember you. The result is that women were all sighing with love for you!"

Common music, which had certainly been the most powerful vehicle of vulgar speech, was in the greatest favour with women, and the popular song was its first and most vivid expression. The heroic songs found no listeners unless they were toned down to the expression of softer and more tender sentiments. Robert Wace, in the "Roman du Rou," relates that the minstrel Taillefer had sung the songs of Charlemagne, Roland, and Olivier in the presence of the Norman army before the battle of Hastings (1066). But the minstrels, trouvères, and jongleurs (itinerant musicians) had invented a new art, as it was designated in the twelfth century, by the composition of simple and graceful melodies as accompaniments for their songs about love, gallantry, and adventure. These song composers, known as *troveors* in the North and as *trovadors* in the South, were not, as a rule, capable of noting the music which they composed, so they had recourse to *harmonizers*, who undertook, for a given sum agreed to beforehand, to write and organize the music which was sung or played to them. The harmony was only for two, and consisted merely of a combination of quints with time in unison.

These *harmonizers* were professional musicians, who were learned in musical science, and who were able to put its rules into application; but the

minstrels and trouvères were real composers, who combined poetical talent with musical genius, and who excelled in lighting upon poetical and melodious inspirations. It has been argued, with much show of probability, that the Crusades contributed in no small degree to the development of common music, and that this music had borrowed from that of Eastern peoples the shakes and the florid embellishments which made the fortune of the trouvères. These poet-musicians multiplied throughout Europe, but they were less numerous and successful in Italy than in France. Kings, princes, and nobles took part in this sort of musical crusade (Figs. 370—372).

Among the court trouvères who were poets and musicians in the thirteenth century were the Lord of Coucy, the King of Navarre, the Comte de Béthune, the Comte d'Anjou, the Comte de Soissons, and the Duc de Brabant. Others, not less famous for their poetry and music, were of



Figs. 370-372.—Minstrels and Kings as itinerant musicians, playing various instruments. After MS. in National Library, Paris.

more plebeian birth, such as Adam de la Hale, Perrin d'Angecourt, Gautier d'Argies, Audefroy le Bâtard, Blondeau de Nesle, Colart le Bouteillier, Gace Brucé, Richard de Fournival, &c. The appearance of the troubadours in Provence and the southern provinces preceded the great epoch of the trouvères; and the former, who belonged to a musical school which was more Italian than French, were as much in favour as the poets of the *langue d'oil*. Their music was more languishing and lackadaisical than the brighter and crisper compositions of the trouvères.

These various kinds of compositions were always accompanied by a stringed instrument, generally the harp, the psaltery (see Fig. 380), the violin, or the lute. They were known by various names: the love-song, the *servente*, the *rostruenge*, the *pastoral*, the *parture*, the lay and virelay, the ballad, and the ballad song. The last named resembled the virelay with regard to the laws of literary composition, and the ballad from the musical point of

view, being thus characterised by Guillaume Machault in the fourteenth century:—

> "Puisqu'il vous plaist, lors sans delay,
> Encommencerai ce virelay,
> Qu'on clame chanson balladée;
> Enfin doit-elle estre nommée."

The plain ballad was generally written in several parts, like the roundels and the motets. The lay consisted of several couplets which were sung to different tunes, whereas in the songs properly so called the same tune was repeated in each stanza.

The great favour shown to the first trouvères in the courts of kings and the houses of the nobility brought about what may be described as an incursion of *minstrels*, *singers*, *jongleurs* (*joculatores*), and instrument players, who travelled in troops through the country. Going from town to town and château to château, exercising their calling at weddings, feudal festivals, and village feasts, they were welcome everywhere, treated to the best the house contained, and well paid, so that the accusations of drunkenness and debauchery which have been brought against them may not have been groundless.

It was for the purpose, no doubt, of disproving these charges that two jugglers, named Jacques Grue and Hugues or Huet of Lorraine, founded a church and hospital at Paris in 1321. They bought from the Abbess of Montmartre a piece of ground, upon which they built in the Rue St. Martin a chapel dedicated to St. Julian and St. Genest, the patron saints of comedians and minstrels. The chapel and hospital were built in the space of fifteen years with the money which the founders had collected from the inhabitants of Paris, and these founders placed themselves at the head of an association of minstrels and itinerant musicians, male and female, the statutes of their confraternity receiving the sanction of the provost of Paris. The members of this corporation enjoyed the exclusive right of executing music at the festivals and weddings celebrated in the city; and minstrels not belonging to the association were liable to fine and banishment from Paris for a year and a day if they ventured to compete with the confraternity, which was under the authority of a king of the minstrels and a provost of St. Julian. The foreign minstrels and jongleurs who came to Paris, and who were not authorised to follow their profession in the city, were received as guests at the hospital of the confraternity. Violent quarrels occasionally occurred between the associates and the free minstrels, but the corporation insisted upon the observance of its statutes, which remained in force as long as it existed.

To the trouvères attaches the honour of having composed and brought out the first opera ever given in France. This opera, or *opéra comique*, which dates from 1285, was the work of Adam de la Hale, who composed the words and the music. It was called *Le Jeu de Robin et Marion*, and was partitioned into scenes, with an intermixture of songs. The plot is a very simple one. The shepherdess Marion is in love with the shepherd Robin, and though a chevalier appears on the stage and attempts to win her away from him, she remains true to him. It was in this pastoral that Adam de la Hale introduced the famous air of the "Homme Armé," which was so often reproduced and imitated by the musicians of the Middle Ages that it is held, rightly or wrongly, by the most learned musicographers, to be the war-song which the Crusaders sang in chorus when they entered Jerusalem. Adam de la Hale, in adapting common music to the dramatic art, did the same as the pious authors of the liturgical drama, which had been utilised for religious purposes during the two previous centuries. The original object of the liturgical drama was to draw away the faithful from the corrupt amusements of the profane stage. This musical drama had been so implanted in the liturgy that it came to be an essential part of religious ceremonies, and at the festivals of the Nativity, of the Adoration, of the Passion, and of the Resurrection, deacons and choristers represented, not inside the church, but under the porch or in one of the chapter-rooms, the episodes in the life of Christ almost as they were related in the Church service. Five or six of these liturgical dramas have been found, among others the oldest of all—*The Wise and the Foolish Virgins.* The archangel Gabriel announces the coming of Christ; the foolish virgins confess their sins, and entreat the wise virgins to help them; the latter refuse, and the merchants decline to sell the foolish virgins the oil to light their lamps. All the Latin stanzas, ending with a *ritournelle* in the vulgar tongue, are sung to a different tune by each personage (see Fig. 373). Coussemaker, speaking of these liturgical dramas, says, "We find in them neither passions, nor intrigues, nor the scenic movements which occupy the principal place in profane drama; on the contrary, the prevailing points are the calm and simplicity of the recital, the elevation and nobility of the thoughts expressed, and the purity of the moral principles. The music required to interpret sentiments such as these, and to give them a more powerful expression, could not be of the rhythmical kind, which is suitable to excite worldly passions, but one arranged according to the rules of the plain chant, having regard, of course, to certain laws of rhythm and accentuation."

Other musical dramas on devotional subjects were also played in the cloisters as a pastime by the monks and nuns. The pieces by Hrosvitha, a

nun at Gandersheim, in Saxony, are very good types of this drama; but the music, which is mixed up in a dialogue interlarded with prayers and Church songs, is of such a character that we can only conjecture that it was conducted and supported by the organ. This kind of drama, which was more religious than liturgical, differed from the profane music of the drama not only in regard to the nature of the subject and the aim of the representation: in the one case the music was grave and solemn, like chanting; in the other it flowed in light and melodious cadences, which harmonized with the sounds of violins and harps.

This was the music of the troubadours and trouvères, who composed songs for three or four voices; and these pieces, many of which have been rescued from the oblivion into which they had fallen, are as remarkable for the

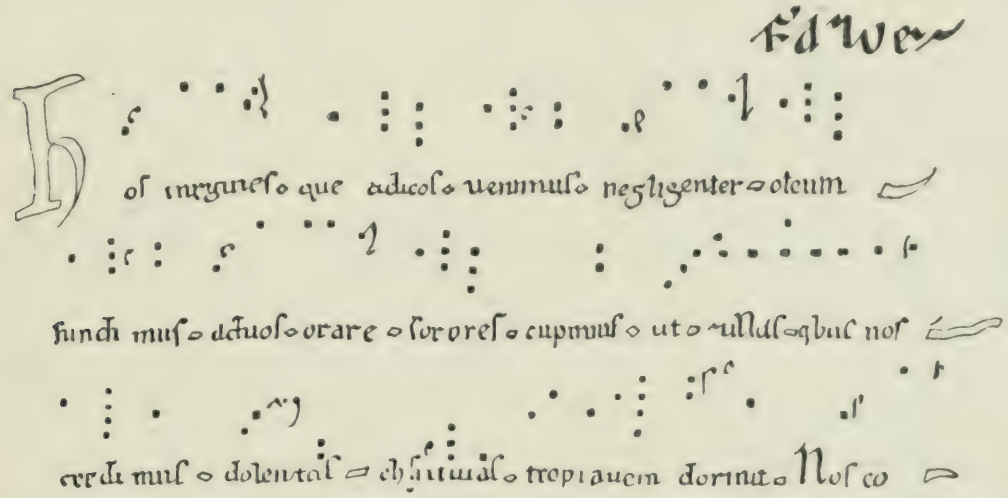


Fig. 373.—Song of the Foolish Virgins, taken from the *Mystery of the Wise and the Foolish Virgins*, religious drama, noted in Neumæ. (MS. 1139 in the National Library, Paris. Tenth Century.)

graceful forms of the melody as for the embellishments of the singing and for their harmonization. Belgium and Germany had, like France and Italy, their schools of master-singers, their musical academies and associations. We even know the names of the minstrels and *minnesingers* who were most in vogue, and whose compositions deserved the fame which they enjoyed. Among them are several who became leaders of a school, and who have left special treatises upon their art, such as Guillaume Dufay, Égide Binchois, De Busnois, Firmin Caron, Vincent Faugues, Éloy, and Brassart, in the fourteenth century. The first named, who became chapel-master to the Pope in 1380, invented the pauses which occur at intervals in the partition, and in one of his masses he first tried the fugue called *canon*, which was so notable a feature in the music of the sixteenth century.

There were a great many poet-musicians in France during the fourteenth century, from Adam de la Hale, whose motets and songs were so generally

admired that the music of them was transposed into the Church songs and chants (see Fig. 374). It was no uncommon thing at that time to find an entire mass written after the reminiscence of some profane air, which was transferred, song and words, into a *Sanctus* or *Benedicamus.* It was in this way that Robert of Anjou, King of Naples and Sicily, one of the best musicians of his day, composed in honour of St. Louis, Bishop of Toulouse, a mass which was celebrated in the churches down to the time of the Council of Trent, while the profane music which had been employed as the theme for the various parts of the mass was still being played by the minstrels. The poet

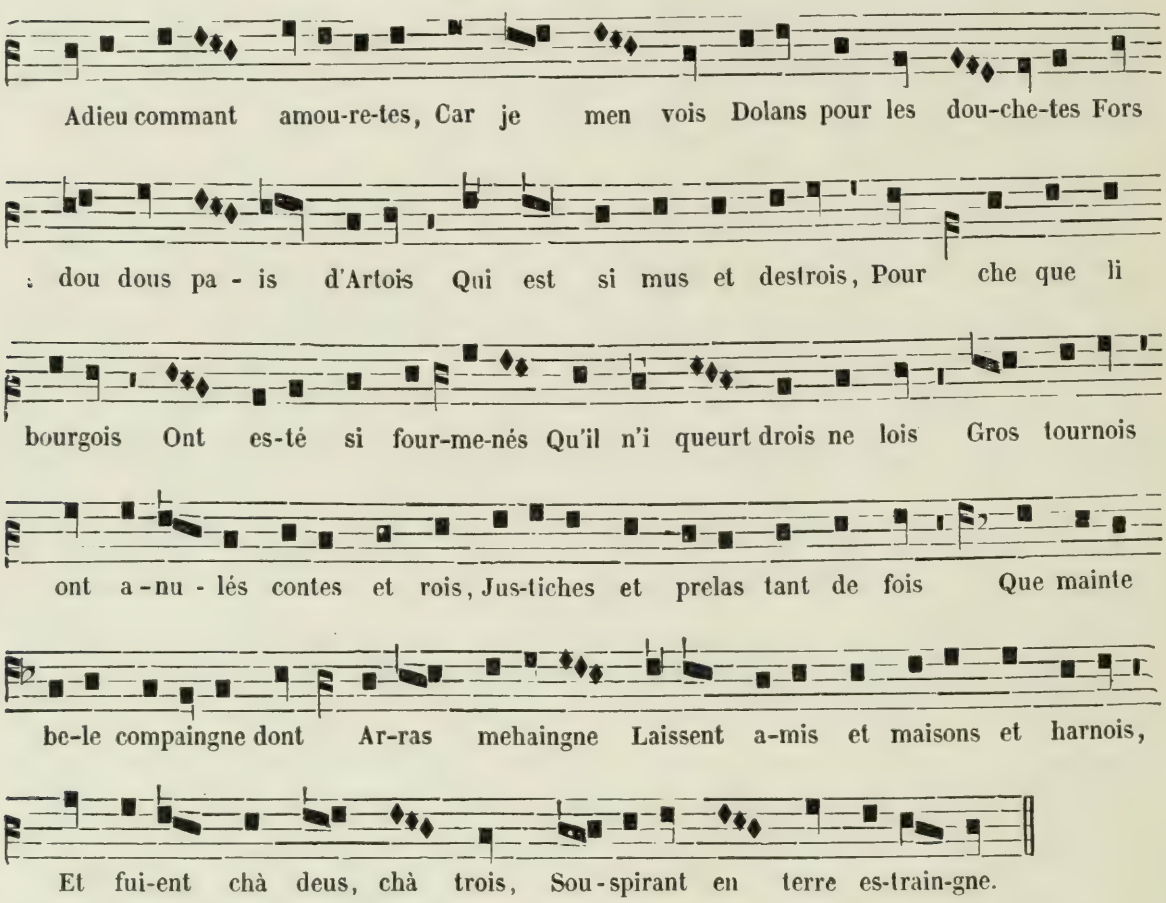


Fig. 374.—Original Notation of a Motet by Adam de la Hale, after the MS. (No. 2736) in the National Library, Paris (Fourteenth Century).

Michael de Machault also composed a mass for four voices at the consecration of Charles V.; but though he composed a quantity of music for his love songs, we do not learn that he imitated any of them in his coronation mass, in which the melody and harmony were entirely his work. Harmony continued to make as much progress in sacred as in secular music; but these two kinds of music gradually assimilated; the plain chant became disorderly, owing to the excesses of the descant, and gradually transformed itself into a sort of musical enigma, in which the chapel-master had accumulated the most eccentric combinations and the most fanciful conceptions.

A few composers of sacred music remained true, nevertheless, to the severest principles of art; as, for instance, Éloy, who wrote masses in which he observed the rules of pure harmony. But, for all that, French and Italian songs were always superior to Church music. A manuscript collection of these songs, composed in the first years of the fifteenth century, gives us the names of the musicians of this period, among whom were Jacopo da Bologna, Francesco degli Organi, Don Donato da Cascia, Maestro Giovanni da Firenze, the Abbot Vicenzo da Imola, &c. From 1420 to 1450 the most renowned French musicians were Domart, Barbingant, Praylois, Le Rouge, De Courbet, and De Humbert. Belgium supplied several of the sovereigns of Europe with chapel-masters, who formed the principal musicians of the time, Jan Ockeghem having held that post under Charles VII.; while another Belgian, Jan Tinctor, or Tinctoris, who was reputed to be the first theorist of the age, founded a school of music at Naples, and became the chapel-master of King Ferdinand of Aragon and of Isabella of Castile. Rome, Milan, and other Italian cities also recruited from the Low Countries various leaders of schools, who exaggerated the novelties of their art under pretence of perfecting its scientific principles. Ockeghem more especially, who had a very great influence upon Italian music, developed much imitative harmony, and obtained very happy effects from the canon with three or four parts.

Kings and princes were always the warmest patrons of music, and most of them could boast of being themselves musicians. René of Anjou, Count of Provence and titular King of Naples, was also, like all the princes of the house of Anjou, very fond of music, and himself a distinguished composer. He wrote masses for his chapel, military marches for his tournaments, and melodies for his chamber music, which he sang with much taste, playing his own accompaniment upon different instruments. He is represented, in the first miniature of the excellent psalter which he had prepared for his own use, as himself directing one of these concerts, in which he took part in the vocal and instrumental execution, which was intrusted to real artists of both sexes. His contemporary, James I. of Scotland, was also a skilled musician, for he could play all the instruments known in his day (see Fig. 375). Louis XI. had no pretensions to the talent of his father-in-law, James I.; and it may even be supposed that he cared little for music, as he was very averse to his wife, Margaret of Scotland, composing or listening to the ballads and roundelays of which she was so fond. But the King, who preferred risky stories to these love ballads, was very particular that his chapel music, on which large sums were spent, should not be inferior to that of any other court in Europe. Charles VIII. brought back from his expedition to Italy as many musicians as he did painters and architects; but he cared



Fig. 375.—The Assumption of the Virgin. Celestial concert, in which the angels are represented as playing the various instruments which were in use during the Fifteenth Century. Painting by Filippino Lippi in the Minerva Church, Rome.

most for military music, although, with its overwhelming clatter of big Swiss drums, it was the least melodious of all.

Francis I. was too fond of poetry not to like music; and his predecessor, Louis XII., had left him a choir which had no equal in the world, and which was under the direction of Guillaume Guinand, formerly chapel-master to Ludovic Sforza, the last Duke of Milan. This was the choir which Francis I. took with him to Milan in 1515, and which had the honour of singing before Leo X., when that pope celebrated mass at Bologna during his stay in that city to meet the King of France and sign the concordat. The principal musicians of that time were a Frenchman named Jean de Lotin; two Belgians, Guillaume Garnier and Bernard Hycart; and Godendach, a German resident in Italy. The Germans deservedly had the reputation of being the best organists and instrument makers (see Fig. 376). Chamber music was much in favour at the Court of Francis I., for there was an endless succession of balls, masquerades, and receptions when the King was residing in one of his royal châteaux. But Francis I. did not neglect the teaching of higher music; for when he founded the Royal College in 1530, the third chair was one of music, and the two professors appointed to fill it were Oronce Finé and Jean Martin, both of them excellent mathematicians.

Rabelais, in a remarkable passage of "Pantagruel" (Prologue of Book IV., published in 1552), arranged in two distinct groups the names of fifty-eight French, Belgian, and Italian musicians, who were held in great esteem as composers and performers at two different epochs in the reign of Francis I., first in 1515, and then in 1551. Rabelais was himself a dialectician and theorist in music, for he was conversant with all the sciences taught in the schools of the Paris University, and he doubtless recalled with pleasure having been present at the house of the brothers Du Bellay, who were his fellow-students, to hear a vocal and instrumental concert by the following artists: Josquin des Prés, Ockeghem, Hobrecht, Agricola, Brumel, Camelin, Vigoris, De la Fage, Bruyer, Prioris, Seguin, Delarue, Midy, Moulu, Mouton, Gascogne, Loysel, Compère, Pevet, Fevin, Rouzée, Richafford, Consilion, Constantio Festi, and Jacquet Bercan. Most of these musicians were pupils of the old Belgian master, Jan Ockeghem, who died at Tours about 1510, and of his learned rival, Josquin des Prés, who was the true leader of the French school. This latter not only composed some magnificent Church songs, but he was also the author of songs for several voices which were lively, and even comic to a degree previously unknown. Thirty-five years later Rabelais paid a visit at Rome to Du Bellay, who had become a cardinal, and there he heard another concert not less interesting, by thirty-three musicians belonging to the Franco-Italian school, the leader of whom was Adrian Villaert, a pupil of Josquin des Prés, and chapel-master at

St. Mark's, Venice. This great Belgian master of counterpoint had at his



Fig. 376.—German musician executing a piece of music upon a portable organ. Facsimile of an engraving Israel van Mecken. End of the Fifteenth Century.

side the Frenchman Claude Goudimel, who was the master of the illustrious Palestrina.

Music by that time was familiar to every one in Europe, and there was scarcely any one but could play or sing. Printing had done much to propagate this love of music (see Fig. 377); and in some of the first books



Fig. 377.—Personification of Music, with Poets and Musicians. Facsimile of a Wood Engraving of the "Margarita philosophica nova" (Strasburg edition, J. Grüninger, 1508, in quarto).

printed at Mayence, Schœffer and Fust engraved upon wooden plates the notation of the plain chant for their edition of the Psalter and of the Missals. It was the Roman, Octavio Petrucci, who discovered at Venice, in 1503, the

secret of printing music in movable type. This valuable discovery enabled him to multiply the impressions, and the cost was much reduced in consequence. Music printing-presses were established throughout Europe, and an immense quantity of compilations, containing masses, motets, songs, and instrumental compositions, published in separate parts so as to facilitate the execution, were produced during the next two centuries. Robert Ballard, the "sole printer of Church music for the King's chamber," obtained from Henri II. the exclusive privilege of printing music in Paris, and this privilege, confirmed by the kings, Charles IX. and Henri III., lasted till the end of the seventeenth century,

The Kings of France remained true to the royal tradition which, from the earliest days of the monarchy, had inspired them with a taste, and even it may be said a passion, for music. Francis I. and Henri II. not only wrote pious songs and love songs, but set them to music and sang them to their own accompaniment of the lute or guitar. Charles IX. and his brothers were even fonder of music and poetry; and Brantôme tells us how King Charles would rise from his seat during mass, and like his father, the late King Henri, go over to the choristers' place and join in the chanting. Brantôme adds, "The King (Henri III.), like his brother, also sang very well, but they differed very much in regard to their favourite tunes." The court of the Valois was filled with poets and musicians, but most of the latter hailed from Italy and Belgium. One of the poets of the Pleiad, Antoine de Baïf, who was as much musician as he was poet, founded at his own house in the Faubourg St. Marcel an academy of music, where all foreign musicians of repute arriving in Paris were received and hospitably entertained. This academy of music gave every week a grand instrumental and vocal concert, at which Charles IX. was almost always present. Like the poet Baïf, Marguerite de Valois, Queen of Navarre, also determined to have her academy of music, and she presided in person at concerts given at her house near Issy, these concerts being held in the gardens to the accompaniment of the bubbling waters of a fountain, which the poets of the day named *Castalian*, after that which flowed at the foot of Parnassus, and which the Greeks had consecrated to the Muses (see Fig. 378).

Sacred and profane music lived, so to speak, in a state of ingenuous promiscuity; and it did not strike people as incongruous to hear in a church the same tunes which they had listened to a few hours before at a ball or a festival. But the austere reformers, who were desirous of preserving religious music in the Lutheran or Calvinistic creed, protested against what they regarded as scandalous, and composed for their own use special melodies, which were reserved exclusively for the Psalms and Canticles. "Of every-

thing which is calculated to give recreation and delight to man," says John Calvin, in his epistle to all *Christians and lovers of God's Word*, which is printed as a preface to the translation of the Psalms of David by Clément Marot, "music is the first, or one of the first, and we must suppose that it is a gift bestowed by God for this purpose. . . . Care should be taken that singing is neither light nor flighty, but that it possesses gravity and majesty,

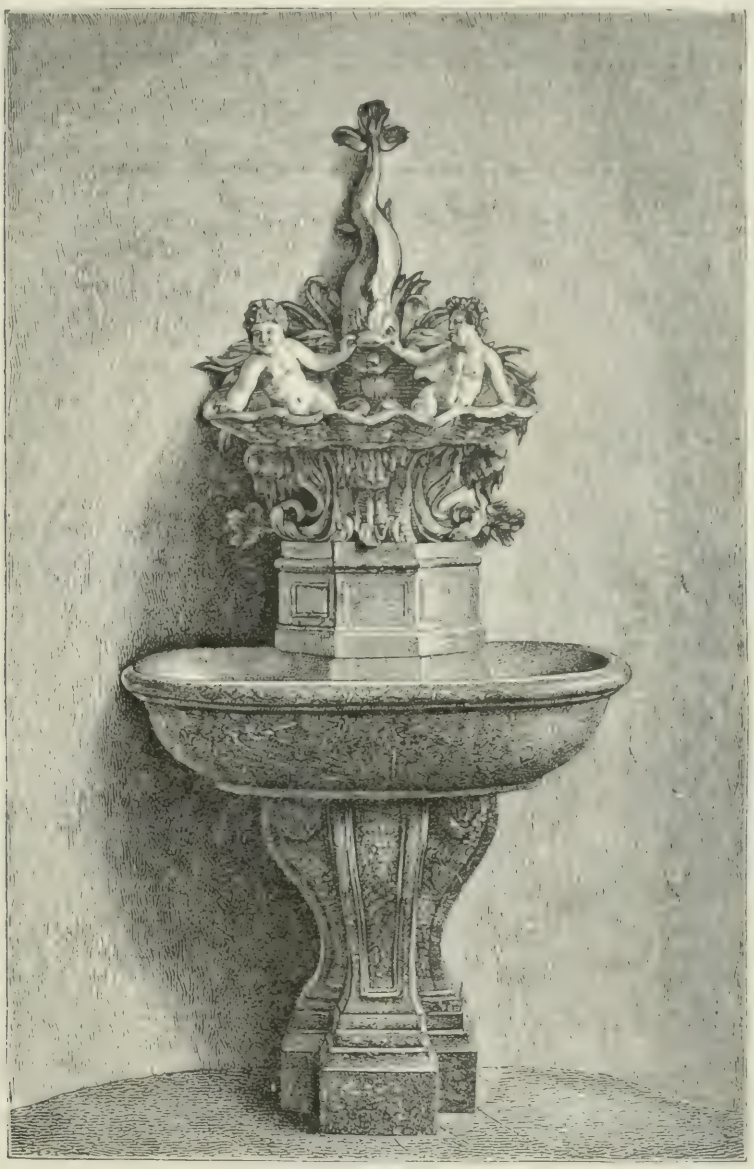


Fig. 378.—Fountain, in marble and coloured lead, purchased by M. Léopold Double at the demolition of the Château d'Issy; now erected at his house in the Rue Louis-le-Grand, Paris.

as St. Augustine says, so that there may be a decided difference between the music which is played to enliven people when at table and in their houses, and that of Psalms sung in church in the presence of God and of the angels." Charles IX. was so fond of religious music that he readily granted, in 1563, to Antoine Vincent, a bookseller at Lyons, a monopoly of ten years' duration for printing all the Psalms of the prophet David, "translated

according to the Hebrew truth, and put into French rhyme and good music."

In Italy Palestrina had effected a reform of Church music, in accordance with the desires of the Catholic priesthood, which since the fifteenth century had been fulminating against the impious and absurd medley of profane songs and anthems. The Council of Trent was upon the point of excluding from the Church all music which was not plain chant, when Palestrina composed his first mass, called the "Mass of Pope Marcel." This caused a complete revolution in sacred music, and Palestrina and his imitators nearly always used as subjects of their religious composition the ancient hymns of



Fig. 379.—Facsimile of a Copper Engraving from the *Ballet de la Royne*, by Balthazar de Beaujoyeulx. (Paris, Mamert Patisson, 1582, quarto.)

the Catholic Church, to which they gave a grave and solemn tone, in keeping with the majesty of religious worship.

At the end of the sixteenth century every country in Europe possessed skilful and ingenious musicians, who instructed many students, and whose works, reproduced by the printing-press, passed from hand to hand in the musical world. Schools of music became universal, and masters were appointed to them from all parts of Europe. The celebrated Claude Goudimel, who opened the first school of music at Rome, Protestant though he was, came back to Paris, and was one of the victims of the St. Bartholomew; the Belgian Archadelt was leader of the choristers in the pontifical chapel;

and his compatriot, Orland de Lassus, a native of Mons, was chapel-master to Duke Albert at Munich. Yet there was no lack of native musicians in Italy —Animuccia, Constant Festa, and Zarlino; in Spain, Vittoria; in England, William Bird, Tallis, and Morley; in Germany, Senfl, Walther, and Hassler; in Belgium and Holland, Philippe de Mons, André Pevernage, and Jacquet de Wert. All of these were composers of erudition and excellent instrumentalists. Yet France did not lag behind, for Claude de Sermisy, chapel-master to Francis I., and Clément Jannequin were succeeded by Du Cauroy, music-master of Henri III., and Claude Lejeune, author of so many charming and original works. Music and poetry seemed to create a pleasing diversion amid the incessant troubles of civil and religious warfare; the people danced and sang upon the eve or morrow of a public disaster; the nobility, upon their return from the army, after having left several of their number on the battle-field, also found relief in concerts; the great lords and princes, when their council meetings were over, assisted at a Fa-Burden mass or took part in a court ballet (see Fig. 379); the Louvre resounded night and day with the harmonious sound of voices and instruments of music. It remained for the League, in its savage fanaticism and amid its sinister plotting, to silence these musical proclivities at a time when Italy, which had entered upon a period of peace and prosperity, inaugurated the musical and spectacular drama, transformed the tonality by a new arrangement of the scale, increased the instrumental power, and modified at once the systems of Church, chamber, and theatrical music.

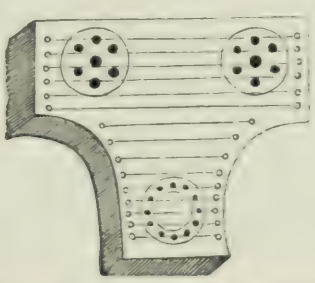


Fig. 380.—Psaltery. Fifteenth Century. (MS. from the "Miroir historial" of Vincent de Beauvais.)

MUSICAL INSTRUMENTS.

Musical Instruments from the Fourth to the Thirteenth Century.—Wind Instruments: the Single and Double Flute, the Pan-pipes, the Reed-pipe, the Hautboy, the Flageolet, Trumpets, Horns, *Olifants*, the Hydraulic Organ, the Bellows-Organ.—Instruments of Percussion: the Bell, the Hand-bell, Cymbals, the Timbrel, the Triangle, the *Bombulum*, Drums.—Stringed Instruments: the Lyre, the Cithern, the Harp, the Psaltery, the *Nible*, the *Chorus*, the *Organistrum*, the Lute and the Guitar, the *Crout*, the *Rote*, the Viola, the *Gigue*, the Monochord.

AMONG the ancients the number of musical instruments was considerable, but their names were even still more numerous, because derived from the shape, the material, the nature and character of the instruments, all of which varied infinitely, according to the whim of the maker or the musician. Added to this, every country had its national instruments; and as each in its own language designated them by descriptive names, the same instrument appeared under ten different denominations, and a similar name was applied to ten instruments. Nowadays, having, as a rule, nothing but monumental representation to guide us, an almost inextricable confusion arises between the different kinds of instruments.

The Romans carried back to their own country, as the results of conquest, specimens of most of the musical instruments they found in use in the countries subdued by them. Thus Greece supplied Rome with nearly all the soft instruments of the class of lyres and flutes. Germany and the northern provinces, being inhabited by warlike races, gave to their conquerors the taste for loud-sounding instruments, such as trumpets and drums. Asia, and Judæa especially, which had multiplied various kinds of metal-instruments for use in their religious ceremonies, were the means of naturalising in Roman music deep-toned instruments of the class of bells and tom-toms (a kind of drum). Egypt introduced into Italy the timbrel along with the worship of Isis. Byzantium had no sooner invented the first pneumatic

organs than the new religion of Christ took possession of them for exclusive consecration to its service, both in the East and in the West.

All the musical instruments of the known world had therefore taken refuge, as it were, in the capital of the Roman empire; but their fate was only to disappear and sink into oblivion after they had played their part in the last pomps of that falling empire, and in the final festivals of the ancient



Fig. 381.—Concert; a Bas-relief, taken from a Capital in Saint-Georges de Boscherville, Normandy. (A Work of the Eleventh Century.)

mythology. In a letter in which he specially treats of "various kinds of musical instruments," St. Jerome, who lived from 331 to 420, speaks of those which were in use in his time for the requirements of religion, war, ceremonial, and art. He mentions, in the first place, the organ, and describes it as composed of fifteen brazen pipes, two air-reservoirs of elephant's skin, and twelve large sets of bellows, "to imitate the voice of thunder." He next

specifies, under the generic name of *tuba*, several kinds of trumpets: that which called the people together, that which directed the march of troops, that which proclaimed the victory, that which sounded the charge against the enemy, that which announced the closing of the gates, &c. One of these trumpets, the shape of which is rather difficult to gather from his description, had three brazen bells, and *roared through four air-conduits*. Another instrument, the *bombulum*, which must have made a frightful uproar, was, as far as we can conjecture from the text of the pious writer, a kind of peal of bells attached to a hollow metallic column which, by the assistance of twelve pipes, reverberated the sounds of twenty-four bells that were set in motion by one another. Next come the *cithara* of the Hebrews, in the shape of a triangle, furnished with twenty-four strings; the sackbut, of Chaldæan origin, a

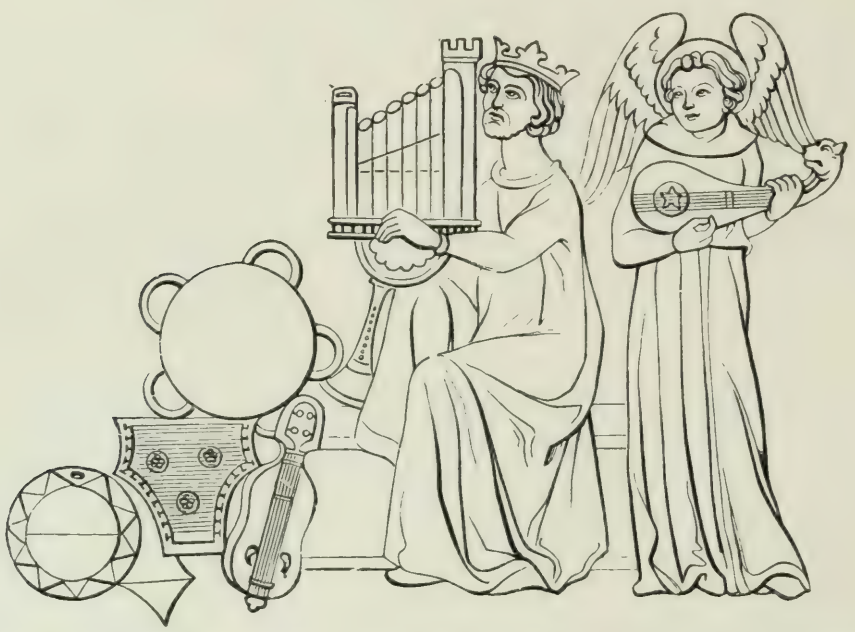


Fig. 382.—Concert and Musical Instruments. From a Miniature in a Manuscript of the Thirteenth Century.

trumpet formed of several movable tubes of wood, fitting one into the other; the psaltery, a small harp provided with ten strings; and lastly, the *tympanum*, a hand-drum to which were fixed two metal flute-tubes.

A nomenclature of a similar kind, applying to the ninth century, exists in a history of Charlemagne, in Latin verse, by Aymeric de Peyrac. This shows us that, during the lapse of four centuries, the number of instruments had been nearly doubled, and that the musical influence of Charlemagne's reign had made itself felt in the revival and improvement of several instruments which had been formerly abandoned. This curious metrical composition enumerates all the stringed, wind, and pulsatile instruments which celebrated the praise of the great emperor, the protector and restorer of music. The number of instruments specified are twenty-four in number; among them we find nearly all those mentioned by St. Jerome.

The names, therefore, of musical instruments had passed through seven or eight centuries without undergoing any kind of change than that naturally resulting from variations in the language. But the instruments themselves, during this long interval of time, had been often modified to such extent that the primitive denomination not unfrequently appeared to contradict the



Fig. 383.—The Tree of Jesse. The ancestors of Jesus Christ are represented with Musical Instruments, and as forming a Celestial Concert. (Facsimile from a Miniature in a Manuscript Breviary of the Fifteenth Century. Royal Library, Brussels.)

musical characteristics of the instrument to which it still continued to be attached. Thus, the *chorus*, which had been a four-stringed harp, and from its name seems to indicate a collection of instruments, had become a wind-instrument. So also the psaltery, which was originally touched by a *plectrum*

(stick) or with the fingers, now only gave forth its notes under the influence of a bow; an instrument that had had twenty strings now only retained eight; another, the name of which seemed to refer to a square shape, was rounded; those primitively made of wood were now constructed of metal. There is reason to believe that, generally speaking, these changes were made not so much with the view of any musical improvement, properly so called, as with an idea of gratifying the fancy of the eye (Figs. 381 to 383). Scarcely any fixed rules for the construction of musical instruments existed before the sixteenth century, when learned musicians applied mathematical principles to the theory of manufacture. Down to 1589 musical instruments were made in Paris by workmen who were organ-makers, lute-makers, or even coppersmiths, under the inspection and guarantee of the community of musicians; but at this epoch the makers of musical instruments were united in a trade corporation, and obtained, through the goodwill of Henry III., certain privileges and special statutes.

As musical instruments have always been divided into three particular classes—stringed, pulsatile, and wind instruments—we shall adopt this natural division in passing under review the various kinds in use during the Middle Ages and the Renaissance. We shall not, however, pretend to be always able to point out the precise musical value of these instruments, for in several instances we have no knowledge of them, except from representations more or less vague.

The class of wind instruments comprised flutes, trumpets, and organs; each of these was, however, subdivided into several very distinct kinds. In the division of flutes alone, for instance, we find the straight flute, the double flute, the side-mouthed or German flute, the Pandean pipes, the *chorus*, the *calamus*, the bagpipes (*muse* or *mousette*), the *doucine* or hautboy, the *flaïos* or flageolet, &c.

The flute is the most ancient of musical instruments; even in the Middle Ages no orchestra was considered complete which did not contain an entire order of flutes, differing both in shape and tone. In principle, the simple flute, or *flûte à bec*, consisted of a straight pipe of hard and sounding wood, made in one piece, and pierced with four or six holes. But the number of holes being successively increased to eleven, and the pipe being enlarged to a length of seven or eight feet, the result was that the fingers were unable to act simultaneously upon all the openings; thus, in order to close the two farthest from the mouthpiece, keys were attached to the body of the flute which the instrumentalist acted on with his foot.

The simple flute, of greater or less length, is seen on the figured monuments of every epoch. The double flute, which was equally in use, had, as its name indicates, two pipes, generally of unequal lengths; the *left-hand*

tube, which was the shortest, and therefore called the *feminine*, produced shrill sounds, while the *right-hand*, or *masculine*, gave the low notes. Whether these two tubes were united or were separate, this flute had always two distinct mouths—although they were often very close together—on which the musician played alternately. The double flute (Fig. 384) was the instrument employed in the eleventh century by the *jongleurs* as an accompaniment.

The side-mouthed flute, which was at first very little used, owed its celebrity in the sixteenth century to the improvements it received from the Germans, hence it acquired the name of the *German flute* (Fig. 386).

The *syrinx* was nothing but the ancient Pan-pipes, composed generally of seven tubes of wood or metal, gradually decreasing in length; they were

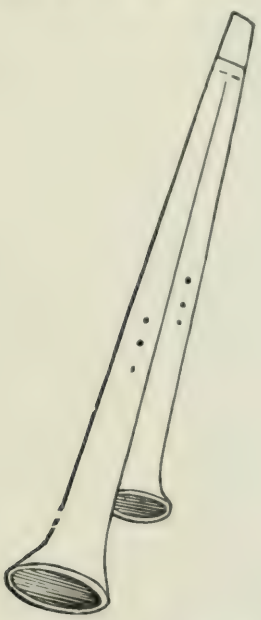


Fig. 384.—Double Flute, Fourteenth Century. (From Willemin's "French Monuments.")



Fig. 385.—Seven-tubed *Syrinx*, Ninth or Tenth Century. (Angers MS.)

closed at the bottom, and at the top took the form of a horizontal plane, which was touched by the lip of the musician as it passed along (Fig. 385). In the eleventh and twelfth centuries, the syrinx, which must have produced very shrill and discordant music, was generally made in the shape of a semi-circle, and contained nine tubes in a metallic case pierced with the same number of holes.

The *chorus*, which in the time of St. Jerome was composed of a skin and two tubes, one forming the mouth, the other the bell-end, must have presented a very great similarity to the modern bagpipes. In the ninth century its shape had changed but little, except that we sometimes find two bell-ends, and the membraneous air-reservoir is in some examples replaced by a kind of case made of metal or resonant wood (*bois sonore*). Subsequently this instrument was transformed into a simple dulcimer.

The *calamus*, called the *chalemelle* or *chalemie*, which derived its origin from the *calamus* or reed-pipe of the ancients, became in the sixteenth century a treble to the hautboy, the *bombarde* being its counter-bass and tenor, and the bass being executed on the *cromorne*. There was, however, quite a group of hautboys. The *douçaine* or *doucine*, a soft flute, the great hautboy of Poitou, played the parts of tenor or of fifth. The length of the hautboy having been found inconvenient, it was divided into pieces united in a movable cluster (*faisceau*) known by the name of *fagot*. This instrument was afterwards called *courtaut* in France, and *sourdeline* or *zampogna* in Italy, where it had become a kind of bagpipe, like the *muse* or *estive*. The *muse de blé* was a



Fig. 386.—German Musicians playing on the Flute and Goat's Horn.
(Drawn and Engraved by J. Amman.)

simple reed-pipe, but the *muse d'Aussay* (or *d'Ausçois*, district of Auch) was certainly a hautboy. With regard to the bagpipes, properly so called, they generally bore the name of *chevrette*, *chevrie*, or *chièvre*, on account of the skin of which the bag was made. They were also designated by the names of *pythaule* and *cornemuse*, drone-pipe.

The *flaïos de saus*, or reed-flutes, were nothing but mere whistles, such as village children are still in the habit of making in the spring; but there were, says an ancient author, more than twenty kinds, "as many loud as soft," which were coupled by pairs in an orchestra. The *fistule*, the *souffle*, the *pipe*, and the *fretiau* or *galoubet*, were all small flageolets played on by the left hand while the right marked the time on a tambourine or with

the cymbals. The *pandorium*, which has been classed among the flutes without its shape and character of tone being rightly determined, must have presented, at least in its origin, some similarity of sound to the stringed instrument called *pandore* (*pandora*).

Trumpets formed a much more numerous class than the flutes. In Latin they were called *tuba*, *lituus*, *buccina*, *taurea*, *cornu*, *claro*, *salpinx*, &c.; in French, *trompe*, *corne*, *olifant*, *cornet*, *buisine*, *sambute*, &c. In most cases, however, they derived their name either from their shape, the sound which they produced, the material whereof they were made, or the use for which they were specially intended.

The shepherd's horns, made of wood rimmed with brass, were a heavy



Fig. 387.—Straight Trumpet with Stand.
(Eleventh Century. Cotton MS. British Museum.)

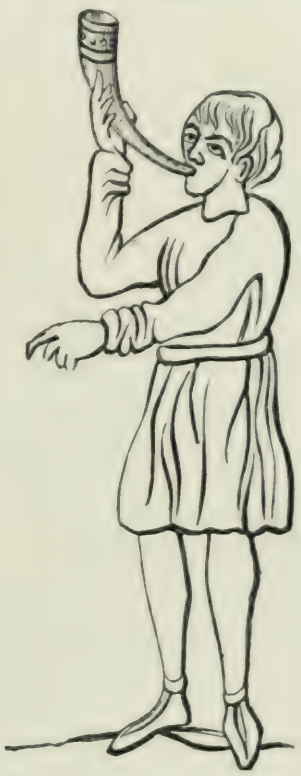


Fig. 388.—Curved Trumpet.
(Eleventh Century. Cotton MS. British Museum.)

and powerful kind of speaking-trumpet, which in the eighth century the Welsh herdsmen and those of the moors of Cornwall always carried with them (Fig. 389). The higher orders were in the habit of using horns of a much more portable character, which were suspended at their girdles. At first these instruments were generally nothing but buffalo's or goat's horns; but when the fashion arose of working delicately in ivory they took the name of *olifant*, an appellation destined to become famous in the old romances of chivalry, in which the *olifant* played a very important part (Fig. 390). To cite only one example among a thousand, Roland, when overwhelmed by numbers in the valley of Ronceveaux, sounded the *olifant* in order to call Charlemagne's army to his aid.

In the fourteenth century, according to a passage in a manuscript in the Library of Berne, quoted by M. Jubinal, there were in bodies of troops *corneurs*, *trompeurs*, and *buisineurs*, who played under certain special circumstances. The *trompes* sounded for the movements of the knights, or men-at-arms; the *cornes* for the movements of the banners or the foot-soldiers; and the *buisines*, or clarions, when the entire camp (*ost*) was to march. The heralds-at-arms, whose duty it was to make the announcements or proclamations in the public ways, were in the habit of using either long trumpets, called *à potence*, on account of the forked stick whereon they were supported, or trumpets *à tortilles* (serpentine), the name of which sufficiently indicates their shape. Added to this, the sound of the trumpet or horn



Fig. 389.—Shepherd's Horn. Eighth Century. (MS. British Museum.)



Fig. 390.—Horn, or *Olifant*, Fourteenth Century.) (From Willemin's "French Monuments.")

accompanied or signalised the principal acts of the citizens both in public and private life. During the meals of great men, the water, the wine, and the bread were heralded by sound of trumpet. In towns this instrument announced the opening and closing of the gates, the opening and closing of the markets, and the time of curfew, till the time when the horn and the copper trumpet were superseded in this function by the bells in church-towers.

Polybius and Ammianus Marcellinus tell us that the ancient Gauls and Germans had a great passion for large, hoarse-sounding trumpets. At the time of Charlemagne, and still more in the days of the Crusades, the intercourse that took place between the men of the West and the African and Asiatic races introduced among the former the use of musical instruments of

a harsh and piercing tone. Then it was that the Saracen-horns, made of copper, replaced the wooden or horn trumpets. At the same period sackbuts, or *sambutes* (Fig. 391), made their appearance in Italy: in those of the ninth century we find the principle of the modern trombone (Fig. 392).

But among all the wind instruments of the Middle Ages, the organ

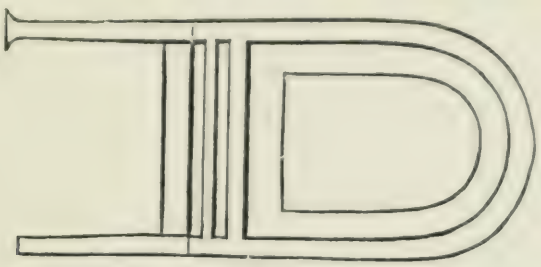


Fig. 391.—*Sambute*, or Sackbut, of the Ninth Century. (Boulogne MS.)

was the one most imposing in its nature, and destined to the most glorious career. The only instrument of this kind known by the ancients was the water-organ, in which a key-board of twenty-six keys corresponded to the same number of pipes; and the air, acted upon by the pressure of water,



Fig. 392.—German blowing a Military Trumpet. Drawn and Engraved by J. Amman.

produced most varied sounds. Nero, it is said, spent a whole day examining and admiring the mechanism of an instrument of this kind.

The water-organ, although described and commended by Vitruvius, was not much in use in the Middle Ages. Eginhard speaks of one constructed, in 826, by a Venetian priest; and the last of which mention is made existed

at Malmesbury in the twelfth century. But this latter might be regarded more in the light of a steam-organ; for, like the warning whistles of our locomotives, it was worked by the effects of the steam of boiling water rushing into brass pipes.

The water-organ was, in very early times, superseded by the pneumatic or wind-organ (Fig. 393), the description of which given by St. Jerome agrees with the representations on the obelisk erected at Constantinople in the time of Theodosius the Great. We must, however, fix a date as late as the eighth century for the introduction of this instrument into the West, or at least into France. In 757, Constantine Copronymus, Emperor of the East, sent to King Pépin a number of presents, among which was an organ that excited the admiration of the court. Charlemagne, who received a similar present from the same monarch, had several organs made from this model. These were provided, according to the statement of the monk of Saint-Gall, with "brazen pipes which were acted on by bellows made of bull's hide, and imitated the roaring of thunder, the accents of the

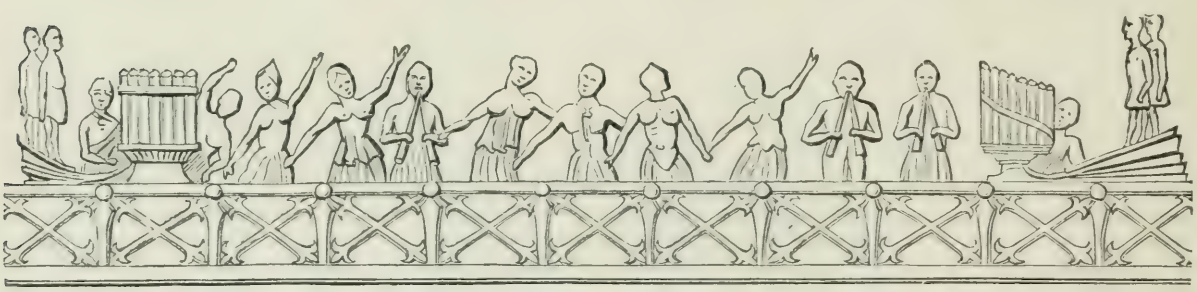


Fig. 393.—Pneumatic Organ of the Fourth Century. (Sculpture of that date at Constantinople.)

lyre, and the clang of cymbals." These primitive organs, notwithstanding the power and richness of their musical resources, were of dimensions which rendered them quite portable. It was, in fact, only in consequence of its almost exclusive application to the solemnities of Catholic worship that the organ became developed on an almost gigantic scale. In 951, there existed in Winchester Cathedral an organ which was divided into two parts, each provided with its apparatus of bellows, its key-board, and its organist. Twelve bellows above, and fourteen below, were worked by seventy strong men, and the air was distributed by means of forty valves into four hundred pipes, arranged in groups or choirs of ten, each group corresponding with one of the twenty-four keys of each key-board (Fig. 394).

In the ninth century, the German organ-makers acquired great renown. The monk Gerbert, who, as we have already remarked, became pope under the name of Sylvester II., and co-operated so efficiently in the progress of the horological art, established in the monastery of which he was abbot a workshop for the manufacture of organs. We must add, that all the musical

treatises written from the ninth to the twelfth century entered into very considerable details concerning the arrangement and working of this instrument. Nevertheless, the admission of the organ into churches did not fail to meet with earnest opponents among the bishops and priests of the day. But while some complained of the thunder and rumbling of the organs, others appealed to the examples of King David and the prophet Elisha. Finally, in the thirteenth century, the right of placing organs in all churches was no longer disputed, and the only question was, who could build the most powerful and most magnificent instruments. At Milan was an organ the pipes of which were of silver; at Venice some were made of pure gold. The number of these pipes was varied and multiplied to an infinite extent, according to the effects the instrument was required to produce. The mechanism was, generally speaking, rather complicated, and

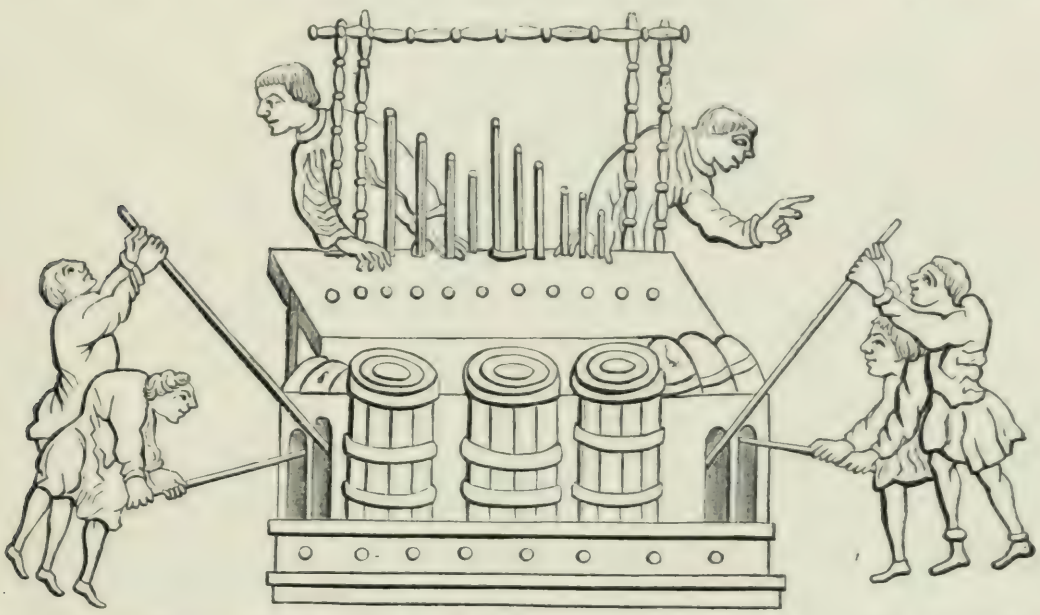


Fig. 394.—Great Organ, with Bellows and double Key-board, of the Twelfth Century. (MS. at Cambridge.)

the working of the bellows very laborious. In large organs the key-board was made up of key-plates five or six inches wide, which the organist, his hands defended by thickly padded gloves, had to strike with his clenched fist in order to bring out the notes (Fig. 395).

The organ, which, as we have seen, was at first of a portable nature, in some cases resumed its original dimensions (Fig. 396). It was then sometimes called simply *portatif* (hand-organ), and sometimes *régale* or *positif* (choir-organ). Raphael represents St. Cecilia with a régale, or regal, in her hands.

The class of pulsatile instruments was formed of bells, cymbals, and drums.

There can be no doubt that the ancients were acquainted with all kinds of bells, but we must ascribe to the requirements of Christian worship the

first introduction of the instrument as we now know it. It was employed from the first in summoning the faithful to the public services. In the first instance the bell was merely held in the hand and shaken by some monk or ecclesiastic who stood in front of the church-door, or mounted a raised platform for the purpose. This *tintinnabulum* (Fig. 397), or portable



Fig. 395.—Organ with single Key-board of the Fourteenth Century.
(Miniature from a Latin Psalter, No. 175, Bibl. Imp., Paris.)

bell, subsequently passed into the hands of the public criers, the societies of ringers, and those who rang knells for the dead, at a time when most of the churches were provided with *campaniles* or bell-towers, wherein were hung the parish bells, which daily assumed dimensions of increasing

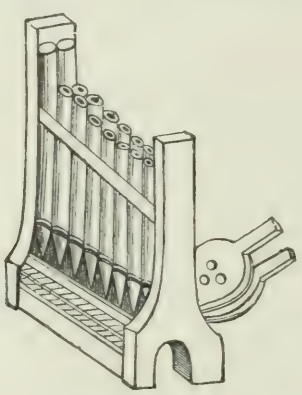


Fig. 396.—Portable Organ of the Fifteenth Century.
(Miniature in Vincent de Beauvais' "Miroir Historial," MS. in the Bibl. Imp., Paris.)

importance. These great bells, of which the *Saufang* of Cologne (sixth century) is an example (Fig. 398), were at first made of wrought-iron plates laid one over the other, and riveted together. But in the eighth century they began to cast bells of copper and even of silver. One of the most

ancient still existing is that in the Bisdomini tower at Siena (Fig. 399). It bears the date of 1159, and is formed in the shape of a cask, being rather more than a yard high: the sound it produces is very sharp. The combination of several bells of various sizes naturally produced the peal or chime; this at first consisted of an arch of wood or iron whereon were suspended the bells, which the player struck with a small hammer (Fig. 400). The number and classification of the bells becoming subsequently rather more complicated, the hand of the chimer was superseded by a mechanical arrangement. This was the origin of those peals of bells for which there was such a demand in the Middle Ages, and of which certain towns are still so proud.

The designations of *cymbalum* and *flagellum* were, in the first instance, applied to small hand-chimes; but there were also regular cymbals (*cymbala*

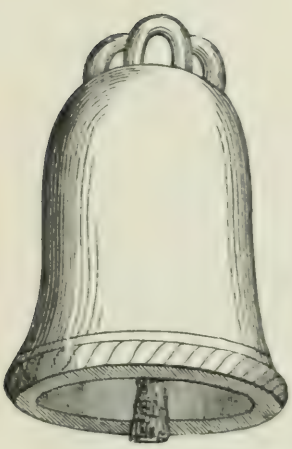


Fig. 397.—*Tintinnabulum* or Hand-Bell of the Ninth Century. (Boulogne MS.)



Fig. 398.—The *Saufang* of St. Cecilia's at Cologne. (Sixth Century.)



Fig. 399.—Bell in a Tower of Siena. (Twelfth Century.)

or *acetabula*), spherical or hollowed plates of silver, brass, or copper. Some of these were shaken at the ends of the fingers, or fastened to the knees or feet, so as to be put in motion by the movement of the body. These small cymbals, or *crotales*, were a kind of rattle (*grelots*), causing the dancers to make a noise in their performance, as do the Spanish castanets, which in the sixteenth century were called in France *maronnettes*, and were the same as the *cliquettes*, or snappers, used by lepers in former days. Small hawk's-bells became so much the fashion at a certain epoch that not only was the harness of horses adorned with them, but they were suspended to the clothes both of men and women, who at the slightest movement made a ringing, tinkling noise, sounding like so many perambulating chimes.

The use of pulsatile instruments producing a metallic sound increased greatly in Europe, especially after the return from the crusades. But even before this date the Egyptian timbrel was used in religious and festival music; this instrument was composed of a circle whereon rings were hung, which tinkled as they struck together when the timbrel was shaken. The Oriental triangle was also used on these occasions; this was almost the same then as it is at the present day.

The drum has always been a hollow case closed by a stretched skin, but the shape and size of this instrument have caused great variations in its name, and also in the way in which it was used. In the Middle Ages



Fig. 400.—Chime of Bells of the Ninth Century.
(MS. de Saint-Blaise.)



Fig. 401.—*Tympanum* of the Thirteenth Century.
(Sculptures on the Musicians' Hall, Rheims.)

it was called *taborellus*, *tabornum*, and *tympanum*. It generally made its appearance in festal music, and especially in processions; but it was not until the fourteenth century that it began to take a place in military bands, at least in France; the Arabs, however, have used it from the earliest ages. In the thirteenth century the *taburel* was a kind of tambourine, played on with only a drum-stick; in the *tabornum* we may recognise the military drum of the present day; and the *tympanum* was equivalent to our tambourine. Sometimes, as seen in a sculpture in the Musicians' Hall at Rheims, this instrument was attached to the right shoulder of the performer, who played upon it by striking it with his head, while at the

same time he blew through two metal flutes communicating with the inside of the drum (Fig. 401).

We have now to speak of stringed instruments, the whole of which may be divided into three principal classes: those played on by the fingers, those that are struck, and those which are rubbed (*frottées*) with a bow or some other appliance.

As a matter of fact, there are some stringed instruments which may be said to belong to all three of these classes, as all three modes of playing upon them has been adopted either simultaneously or in succession.

The most ancient are doubtless those that are played on by the fingers, first among which, in right of its antiquity, we must name the lyre; from this have sprung the cithern, the harp, the psaltery, the *nabulon*, &c. In the Middle Ages, however, considerable confusion arose from the fact

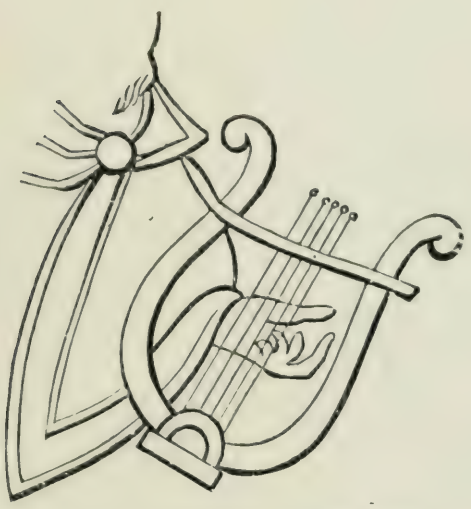


Fig. 402.—Ancient Lyre. (Angers MS.)



Fig. 403.—Lyre of the North. (Ninth Century.)

that these names were even at the time often diverted from their original acceptation.

The lyre, the stringed instrument *par excellence* of the Greeks and Romans, preserved its primitive form as late as the tenth century. The strings were generally of twisted gut, but sometimes also of brass wire, and varied in number from three to eight. The sounding-box, which was always placed at the lower part of the instrument, was more often made of wood than of either metal or tortoiseshell (Fig. 402).

The lyre was held upon the knees, and the performer touched or rubbed the strings with one hand, either with the fingers or by means of a *plectrum*. The lyre specified as "Northern" (Fig. 403) was certainly the origin of the violin, to the shape of which it even then bore some resemblance; it was fastened at the top, and had a *cordier* at the end of the sounding-board, as well as a bridge in the centre of the face of the instrument.

The lyre was superseded by the psaltery and the cithern. The psaltery, which never was furnished with fewer than ten, or more than twenty, strings, differed essentially from the lyre and the cithern by the sounding-board being placed at the top of the instrument. Psalteries were made of a round, square, oblong, or buckler-shaped form (Fig. 405); and sometimes the sounding-box was lengthened so as to rest upon the shoulder of the musician (Fig. 404). The psaltery disappeared in the tenth century and gave place to the cithern (*cithara*), a name which had been at first applied to



Fig. 404.—Psaltery to produce a prolonged sound. Ninth Century.
(MS. in the Bibl. Nat., Paris.)

all kinds of stringed instruments. The shape of the cithern, which in the days of St. Jerome resembled a Greek *delta* (Δ), varied in different countries, as is proved by the epithets—*barbarica*, *Teutonica*, *Anglica*—which we find at different times coupled with its generic name. In other places, in consequence of these local transformations, it became the *nabulum*, the *chorus*, and the *salterion* or *psalterion* (which latter must not be confounded with the psaltery, a primary derivative of the lyre).

The *nabulum** (Fig. 406) was made either in the shape of a triangle

* *Nabulum*—a name evidently derived from the Hebrew word *nebel*, generally translated in the Scriptures as a psaltery.—[D.]

with truncated corners, or of a semicircle joined at the two extremities; its sounding-board occupied the whole of the rounded part, and left but a very limited space for the twelve strings. The *chorus* or *choron*, the imperfect representation of which in the manuscripts of the ninth and tenth

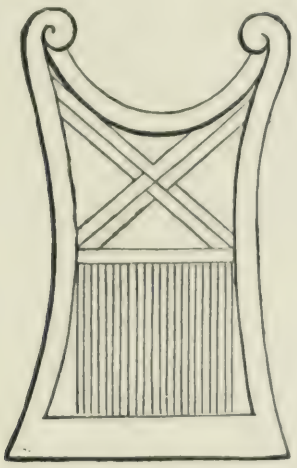


Fig. 405.—Buckler-shaped Psaltery with many Strings. (Ninth Century. Boulogne MS.)

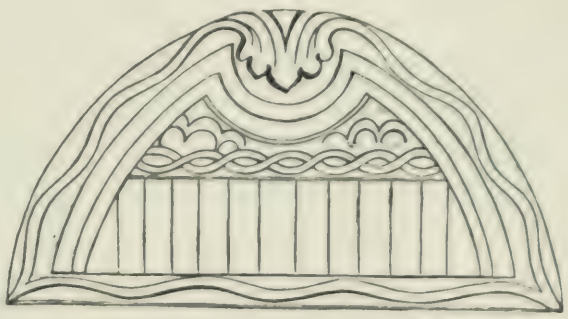


Fig. 406.—*Nabulum.* Ninth Century. MS. d'Angers.)

centuries calls to mind the appearance of a long semicircular window or of a Gothic capital Ω, generally had one of its sides prolonged, on which the performer leaned so as to hold the instrument in the same way as a harp (Fig. 407).

The *psalterion*, which was in use all over Europe after the twelfth century,



Fig. 407.—*Choron.* Ninth Century. (Boulogne MS.)



Fig. 408 —*Psalterion.* Twelfth Century.

and is thought to have originated in the East, where it was found by the Crusaders, was at first composed of a flat box of sounding wood, with two oblique sides; it assumed the shape of a triangle truncated at its top, with twelve or sixteen metallic strings either of gold or silver, which was played

upon by means of a small bow of wood, ivory, or horn (Fig. 408); subsequently the strings were made more slender, the number being increased to as many as twenty-two; the three angles of the sounding-box were cut off, and holes were made, sometimes one only in the middle, sometimes one at each angle, and sometimes as many as five, symmetrically arranged. The performer placed the instrument against his chest, and held it so as to touch the strings either with the fingers of the two hands, or with a pen or *plectrum* (Fig. 409). This instrument, which in the representations of poets and painters never failed to figure in celestial concerts, produced tones of incomparable softness. The old romances of chivalry exhausted all the



Fig. 409.—Performer on the *Psalterion*. Fourteenth Century. (MS. No. 703 in the Bibl. Nat. of Paris.)

phrases of admiration in describing the *psalterion*. But the highest eulogium which can be passed on this instrument is that it formed the starting-point of the harpsichord, or of the stringed instruments struck or played on by means of mechanism.

It is, in fact, thought that a kind of harpsichord with four octaves, which in the fourteenth century was called *dulcimer* or *dulcemelos*, and is but imperfectly described, was nothing else than a *psalterion*, with a sounding apparatus that assumed the proportions of a large box, to which also a key-board had been adopted. This instrument, when it had but three octaves, was

called *clavicord* or *manicordion*, and in the sixteenth century produced forty-two to fifty tones or semi-tones: one string expressed several notes, and this was effected by means of plates of metal which, serving as a movable bridge to each string, either increased or diminished the intensity of its vibration. The grand-pianos of the present day unquestionably have their key-boards placed in the same positions as they were in the *dulcimer* and *clavicord*. The earliest improvements in metallic stringed instruments constructed with a

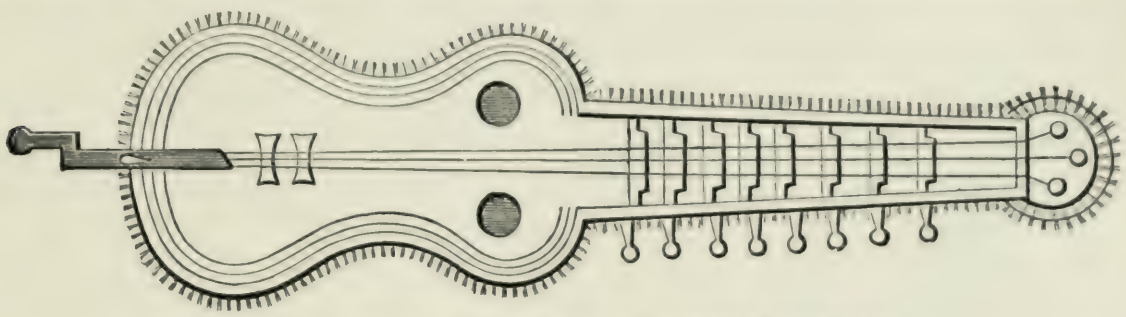


Fig. 410.—*Organistrum.* Ninth Century. (MS. de Saint-Blaise.)

key-board are due to the Italians; these improvements soon had the effect of throwing the *psalterion* into oblivion.

In the ninth century a stringed instrument was in use the mechanism of which, although not very perfect, evidently tended to an imitation of the key-board applied to organs: this was the *organistrum* (Fig. 410), an enormous guitar pierced with two sound holes, and provided with three strings

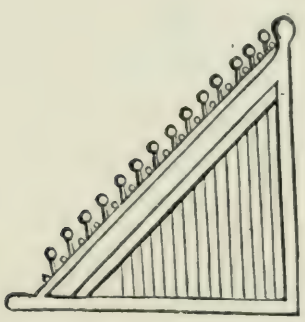


Fig. 411.—Triangular Saxon Harp of the Ninth Century. (Bible of Charles le Chauve.)

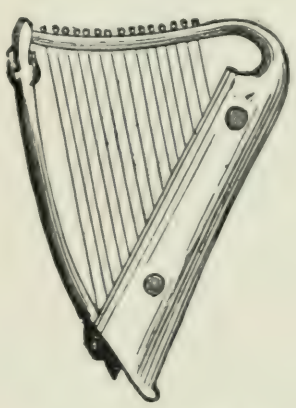


Fig. 412.—Fifteen-stringed Harp of the Twelfth Century. (MS. in the Bibl. Nat., Paris.)

set in vibration by a small winch; eight movable screws, rising or falling at will along the finger-board, formed so many keys which served to vary the tones. In the first instance two persons performed on the *organistrum*—one turning the winch while the other touched the keys. When its size was decreased it became the *vielle* (hurdy-gurdy) properly so called, which could be managed by one musician. It was at first called *rubelle*, *rebel*, and *symphonie*; subsequently this last name was corrupted into *chifonie* and *sifonie*, and we may remark that even now in certain districts of Central

France the *vielle* still bears the popular name of *chinforgne*. The *chifonie* never found a place in musical concerts, and fell almost immediately into the hands of the mendicants, who solicited alms accompanied by the doleful and somewhat discordant notes of this instrument, thence obtaining the name of *chifoniens*.

Notwithstanding all the efforts which were made to substitute wheels and key-boards for the action of the fingers on the strings of instruments, still those that were played on by the hand only, such as harps and lutes, did not fail to maintain the preference among skilful musicians.

The harp was certainly Saxon in its origin, although some have imagined



Fig. 413.—Harpers of the Twelfth Century, from a Miniature in a Bible. (MS. in the Bibl. Nat., Paris.)



Fig. 414 —Harp-player of the Fifteenth Century. From an Enamelled Dish found near Soissons, and preserved in the Bibl. Nat., Paris.

they could discover traces of it in Greek, Roman, and even Egyptian antiquities. This instrument was at first nothing but a triangular cithern (Fig. 411), in which the sounding-board occupied the whole of one side from top to bottom, instead of being limited to the lower angle, as in the primitive *cithara*, or confined to the upper part, as in the psaltery. The English harp (*cithara Anglica*) of the ninth century differed but little from the modern instrument; the simplicity and good judgment shown in its shape bear witness to the perfection it had already attained (Fig. 412). The number of strings and the shape of this instrument varied constantly from time to time.

The sounding-box was sometimes made square, sometimes elongated, and sometimes round. The arms were sometimes straight and sometimes curved; the upper side was often lengthened so as to represent an animal's head (Fig. 413), and the lower angle, on which the instrument rested on the ground, terminated in a griffin's claw. According to the miniatures in manuscripts, the harp was of such a size that the top of it did not extend higher than the head of the performer, who played upon it in a sitting posture (Fig. 414). There were, however, harps of a lighter character, which the musician bore suspended from his neck by a strap, and played upon while standing up. This portable harp was the one that may *par excellence* be called noble, and was the instrument on which the *trouvéres* accompanied their voices when reciting ballads and metrical tales (Fig. 415).

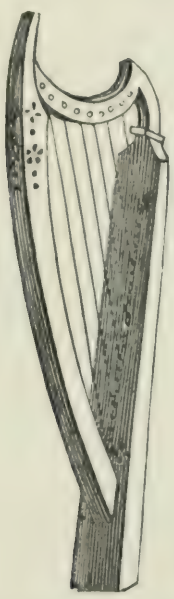


Fig. 415.—Minstrel's Harp, of the Fifteenth Century. (MS. in the *Miroir Historiale* of Vincent de Beauvais.)



Fig. 416.—Five-stringed Lute. Thirteenth Century. (MS. in the Bibl. Imp., Paris.

In the romances of chivalry harpers are constantly introduced, and their harps are ever tuned to some lay of love or war; we find this taking place as well in the north as in the south. "The harp," says Guillaume de Machaut—

"tous instruments passe,
Quand sagement bien en jeue et compasse."

In the sixteenth century, however, it began to fall into disfavour; it was supplanted by the lute (Fig. 416), an instrument much used in the thirteenth century, and by the guitar, which was brought into fashion in France from Spain and Italy, and formed the delight both of the court and private circles. At that time every great lord, imitating kings and princesses, wished to have his lute or guitar player, and the poet Bonaventure des Périers, *valet de chambre* of Marguerite de Navarre, composed for her "La

Manière de bien et justement entoucher les Lucs et Guiternes." With certain modifications, however, they gave rise to the *theorbo* and the *mandolin*, which never attained more than a transient or local favour.

Stringed instruments that were played on by means of bows were not known before the fifth century, and belonged to the northern races; they did not become prevalent in Europe generally until after the Norman invasion. The most ancient of them is the *crout* (Fig. 417), which must have pro-



Fig. 417.—Three-stringed *Crout* of the Ninth Century. From a Miniature.



Fig. 418.—King David playing on a *Rote*. From a Painted Window of the Thirteenth Century. (Chapel of the Virgin, Cathedral of Troyes.)

duced the *rote*, so dear to the minstrels and the *trouvères* of the thirteenth century. The *crout*, which is the instrument placed by tradition in the hands of the Armorican, Breton, and Scotch bards,* was composed of an oblong sounding-box, more or less hollowed out at the two sides, with a handle fixed in the body of the instrument, in which were made two openings that allowed the performer to hold it by the left hand and at the same time to touch the strings; these, as a matter of principle, were only three in

* The Welsh or Scotch *Crwd*.—[Tr.]

number. Subsequently it had four strings, and then six. The musician played on it with a straight or convex bow, provided with a single thread either of iron wire or of twisted hair. Except in England, where the *crout* was national, it did not last beyond the eleventh century. It was replaced by the *rote*, which was not, as its name (apparently derived from *rota*, a wheel) would seem to intimate, a *vielle* or *symphonie*. It would be useless to seek for the derivation of the name of *rota*, except in the word *crotta*, the Latin form of the term *crout*.

In the earliest *rotes* (Fig. 418), those made in the thirteenth century,



Fig. 419.—German Musicians playing on the Violin and Bass-Viol.
Drawn and Engraved by J. Amman.

there is an evident intention of combining the two modes of playing on the strings—rubbing with a bow and touching with the fingers. The box, which was hollowed out and rounded at one end, was much deeper at the lower end, where the strings commenced, than higher up, near the pegs, where the strings are modified by the action of the finger, which reaches them through an aperture; the bow acting on them near the string-bridge in front of the sounding-holes. It must have been difficult to touch with the bow one string alone, but it should be remarked that the harmonic ideal of this instrument consisted in forming chords by consonances of thirds, fifths, and eighths. The *rote* was soon developed into a new instrument, assuming the form that our violoncellos have almost exactly retained. The box was increased in size, the handle was lengthened beyond the body of the instrument, the number

of strings was reduced to three or four, stretched over a bridge, and the sounding-holes were made in the shape of a crescent. From this time the *rote* acquired a special character it had not lost even in the sixteenth century, when it became the bass-viol. This was its true destination. The size of the



Fig. 420.—Oval *Vielle* with Three Strings, of the Thirteenth Century.
(Sculpture on the Cathedral of Amiens.)

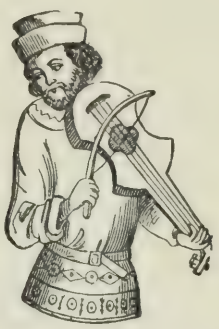


Fig. 421.—Juggler playing on a *Vielle*, hollowed out at the sides. Fifteenth Century.
(" Heures du Roi René," MS. No. 159 in the Arsenal Library, Paris.

instrument dictated the manner in which it was held, either on the knees or on the ground between the legs (Fig. 419).

The *vielle* or *viole*, which had no affinity except in shape with the *vielle*



Fig. 422.—Player on the *Vielle*. Thirteenth Century
(Taken from an Enamelled Dish at Soissons.)



Fig. 423.—Angel playing on a Three-stringed Fiddle. Thirteenth Century.
(Sculpture in the Cathedral at Amiens.)

(hurdy-gurdy) of the present day, was at first a small *rote* held by the performer against his chin or his breast, in much the same way as the violin is now held (Fig. 420). The box, which was at first conical and convex, became gradually oval in shape, and the handle remained short

and wide. It was, perhaps, this handle which terminated in a kind of ornamental scroll in the shape of a violet (*viola*), that originated the name of the instrument. The *viole*, just as the *rote*, was used to accompany certain songs; and among the *jongleurs* who played upon it good performers were rare (Figs. 421, 422). Improvements in the *vielle* came for the most part from Italy, where the co-operation of a number of skilful lute-players was the means of gradually forming the violin. Even before the famous Duifloprugar, born in the Italian Tyrol, had hit upon the model of his admirable violins, the handle of the *vielle* had been lengthened, its sides hollowed out, and its strings had received a more extended field of

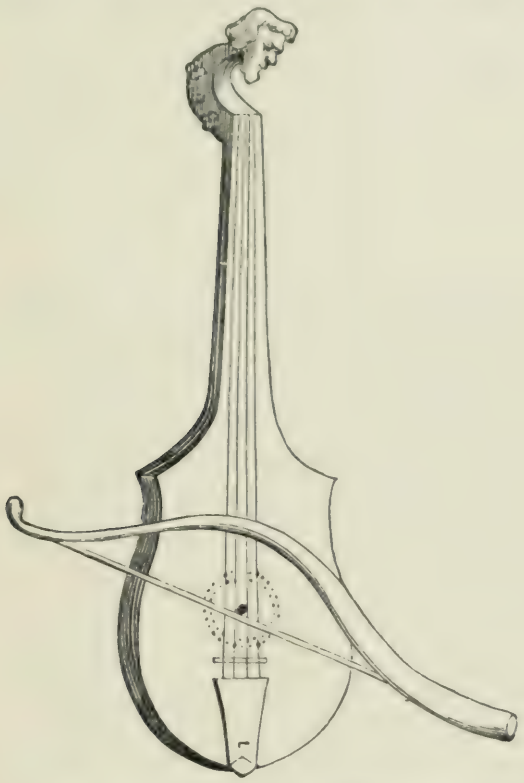


Fig. 424.—Rebec, of the Sixteenth Century. From Willemin.



Fig. 425.—Long Mono chord played on with a Bow. Fifteenth Century. (MS. of Froissart, in the Bibl. Nat., Paris.)

action by removing the stringer (*cordier*) from the centre of the sounding-board. Henceforth the play of the board became more free and easy, the performer was able to touch every string singly, and was in a position to substitute effects more varied and characteristic for the former monotonous consonances.

England was the birthplace of the *crout;* France invented the *rote*, and Italy the *viole;* Germany originated the *gigue* (*geige*), the name of which may perhaps be derived from the similarity presented by the shape of the instrument to the thigh of the kid. The *gigue* was provided with three strings (Fig. 423), and its special distinction from the *viole* was, that instead of the handle being as it were independent of the body of the instrument, it was

a kind of prolongation of the sounding-board. The *gigue*, which bore a considerable resemblance to the modern mandolin, was an instrument on which the Germans were accustomed to work wonders in the way of performance; according, at least, to the statement of Adenès, the *trouvère*, who speaks with admiration of the "*gigueours* of Germany." The *gigue*, however, entirely disappeared, at least in France, in the fifteenth century; but its name still remained in that of the dance it had so long enlivened.

Among the musical instruments of this class in the Middle Ages, we have still to mention the rebec (Fig. 424), which was so often quoted by the authors of the day, and yet is so little known, although it figured in the court concerts in the time of Rabelais, who specifies it by the term *aulique*, in contrast to the rustic *cornemuse* (bagpipes).

We must, in conclusion, speak of the monochord (*monocordium*) (Fig. 425), which was composed of a narrow oblong box; on each end of the front-board were fixed two immovable bridges supporting a metallic string stretched from one to the other, and corresponding to a scale of notes traced out on the instrument. A movable bridge, which was shifted up and down between the string and the scale, produced whatever notes the performer wished to bring out.

The instruments we have named do not, however, embrace all those in use in the Middle Ages and the Renaissance. There certainly were others which, in spite of the most intelligent investigations, and the most judicious deductions, are now known to us only by name.



Fig. 426.—Triangle of the Ninth Century. (MS. of Saint-Emmeran.)

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